Forty-First Annual Report

OF THE

BOARD OF TRUSTEES

OF

The Ohio State University

TO THE

GOVERNOR OF OHIO

FOR THE

Year Ending June 30, 1911

COLUMBUS, O.:
THE F. J. HEER PRINTING CO.
1912.

OFFICE OF THE BOARD OF TRUSTEES, THE OHIO STATE UNIVERSITY.

COLUMBUS, OHIO, October 1, 1911.

Honorable Judson Harmon, Governor of the State of Ohio:

SIR: — I have the honor to transmit herewith the forty-first annual report of the Board of Trustees of The Ohio State University.

The report, as usual, contains such statements and exhibits as are necessary to show the financial transactions of the past year, and the manner in detail of receiving and disbursing the various funds; also such other information as may be of general interest or required by law.

The Annual Report of the President of the University to the Board of Trustees is made a part of this report.

All of which is respectfully submitted.

CARL E. STEEB,
Secretary.

ANNUAL REPORT OF THE PRESIDENT TO THE BOARD OF TRUSTEES.

OCTOBER, 1, 1911.

HONORABLE OSCAR E. BRADFUTE,

Chairman of the Board of Trustees, The Ohio State University.

DEAR SIR:—I have the honor to present, through you, to the Board of Trustees of the Ohio State University for transmission to the Governor of Ohio, as required by law, the forty-first annual report of the President of the Ohio State University for the year ending June 30, 1911.

THE BOARD OF TRUSTEES.

During the year there has been no change in the Board of Trustees, but it is worth while to call attention to the reappointment of the Honorable Oscar E. Bradfute whose term of service expired in May 1911. This reappointment aside from any complimentary recognition involved is a continuation of a policy inaugurated years ago and which has resulted in giving the Board of Trustees permanence, efficiency and dignity. The high character of the men who have served on the Board, their devotion to the interests of the University and the State, combine to render the service one of pleasure and honor.

Mr. Bradfute, a graduate of Indiana University and a breeder of Aberdeen Angus live stock, has won a repuation in agricultural circles which added to his business ability admirably fits him for the service as a trustee of the University. His reappointment brought universal satisfaction.

THE FACULTY.

The year marks the passing of three persons whose lives were identified with the Ohio State University in the early years.

Emeritus Professor Stillman Williams Robinson died at his residence in Columbus, October 31, 1910, at the age of seventy-two. Professor Robinson retired from service in 1895. He was a graduate of the University of Michigan in the class of 1863. During the intervening years he served on the United States Lake Survey as a civil engineer, and for four years in the University of Michigan. Later he was professor of mechanical engineering and physics in the University of Illinois where he organized the first distinctly mechanical engineering laboratory in the country. His services at the University of Illinois were of a very high order and appreciation has been repeatedly expressed. In 1878 he came to the Ohio State University and showed the same genius in mechanical

engineering which had characterized his early experiences. He was greatly beloved as a teacher and friend both by his associates in the faculty and students. His genius in mechanical engineering aroused enthusiasm and was a source of continual inspiration to his students. His interest in and love for the University continued throughout his entire life. The University was frequently the beneficiary of his generosity. The most notable instances being the Robinson Testing Boiler and the endowment of the Robinson Fellowship for advanced work in engineering. It seemed a fitting recognition to name a new laboratory for engineering in his honor.

Emeritus Professor Robert White McFarland died at his home in Oxford, Ohio, October 23, 1910. Professor McFarland was a graduate of Ohio Wesleyan University in the class of 1847, and devoted his life to teaching until 1888, save the period of service in the civil war in which he rose to the rank of Lieutenant Colonel. Dr. McFarland was a man of unusual force and vigor of character, and began his services in the department of mathematics and engineering in 1873 and continued until 1885. His passing, therefore, marks one more break in the ranks of the men who laid the foundation of education in the Ohio Agricultural and Mechanical College. He would doubtless have continued in the service of the University until his death had he not accepted the presidency of Miami University where he served from 1885 to 1888. The later years of his life were given to some practical work in engineering. Among the early students his memory is cherished and his services remembered with keen appreciation.

Nathaniel Wright Lord died May 23, 1911. His death coming unexpectedly in the strength of his years was a great shock to all of his associates and friends. Professor Lord graduated at Columbia University in 1876; served as assistant engineer in Cincinnati and in Nicaragua. He came to the University in 1877 and continued in one capacity or another until his death. He was for some years Dean of the College of Engineering, and more than any other person was responsible for the organization of the work in mining and metallurgy, and was the original Director of the School of Mines authorized by the legislature. His wide acquaintance with conditions in Ohio and with the men who were engaged in mining and transportation enterprises furnished the opportunity for an unusual efficiency in relating the work of the University to the practical conditions in Ohio and West Virginia mining territories. He was a teacher of unusual parts, with an initiative that filled his laboratory with a spirit of scholarly research and inspired his students with an enthusiasm for work. Professor Lord was trained in the school of experience that taught him self-reliance and independence of judgment. These qualities with his unusual initiative made him a leader upon whom his associates relied. He won the highest reward of a teacher; his pupils loved him, his associates trusted him, and the efficiency of his students was the proof

of his power. His contributions to metallurgical science need not be recorded here.

During the year the following men were on leave of absence: Benjamin Lester Bowen, Francis Cary Caldwell, Charles Bradfield Morrey, Edgar Holmes McNeal, Samuel Eugene Rasor, Robert Fiske Griggs, Frederick Rupert Marshall from May 15th until the end of the year, and Albert Martin Bleile from April 26th until the end of the year.

The continuation of the custom of a leave of absence has already shown its value as a practical educational measure. Sufficient experience has accumulated to show that the University is pursuing a policy of advantage to itself and one which may be readily justified on the ground of public policy. The more or less common opinion current even among college graduates to the effect that when a man is prepared for his business or profession no further education is necessary and that the leave of absence is a mere gratuity, will not be justified by a study of the facts. It is true that men grow by means of the service which they render, but it is also true that professional men especially attorneys and physicians, have shown the beneficial results of a reasonable time devoted to research and study. Where this can be done in a definite period devoted to such purposes the advantages accrue much more promptly. The demands of modern scholarship in all professions are such as to stir in every aspiring scholar a desire for the leisure at intervals to make it possible for a man to keep abreast with the very best things in his field of service. This is not always possible in the presence of fixed engagements and frequently demands journeys for investigation and conference such as are inconsistent with the daily routine of academic or professional service. No argument is needed to convince the academic public of the importance of an occasional leave of absence but the appreciation of this necessity on the part of the people is largely a matter of future growth. The University therefore is pursuing the conservative policy in the hope that it might help in the progress without offending a public sentiment not yet founded upon a careful consideration of the educational problem.

For the first time the current year has been marked by a closer organization among the body of Deans, and by placing upon them a more direct responsibility for administration. They participated in the preparation of the annual budget for the first time. For purely and only administration purposes the departments were assigned to the several Deans and they were made responsible for accurate and detailed reports and recommendations upon the conditions and needs of the University. In an institution organized as a state university the department rather than the college is the unit. These departments of necessity serve in all the colleges that are organized for administrative purposes. While the college may present a definite idea such as agriculture, engineering, or arts and sciences, the departments make a teaching contribution to students in more than one college. It would be an unnecessary and

probably expensive duplication to have a department for each college organized and for that reason both the college and the organization are administrative agencies using the department as a thing of additional value. The experience of the year has shown the wisdom of the change and at the same time has brought a realization of the fact that no organization of University forces has yet been discovered which will be free from criticism. Economy and efficiency are important factors but it is a difficult problem to adjust the notions of freedom in teaching with the more or less mechanical problems of administration.

GIFTS.

The report of the Secretary of the Board of Trustees gives a detailed statement of the gifts to the University during the year. Naturally these contributions vary somewhat from year to year. The current year has not been marked by as many gifts as some former years. The most significant item was probably the addition to the Derby Scholarship made by the founder. The stable character of University investments should offer an attractive feature to persons generously disposed in the interest of education. The University has repeatedly expressed its appreciation of the generosity of men, and especial mention should now be made of the fact that a large number of people have made small gifts that have been of real value and service. There is such a tendency to measure the gift by the largeness of it that the public and perhaps even the universities have not always seemed to understand the importance of small gifts that do a real service. Any large or growing institution develops a variety of opportunity for people of moderate means to make small but effective donations. The only suggestion necessary is that a little inquiry would bring to view opportunities for a service suited to the individual taste and capacity of the giver.

In this connection the very commendable spirit of the alumni is deserving of mention. The tablets placed in Townshend Hall, Orton Hall, and Brown Hall, and the portraits given to the University show the opportunities for important service without impoverishing any one. Much of the richest sentiment about the University will in the future cluster around the small gifts springing from a love and appreciation of the University and its teachers. The senior class for a series of years has devoted its gifts to the development of a fund for the purchase of chimes as a memorial from the several classes participating. It is hoped that this enterprise of the students will find its complete expression in the very near future.

ENROLMENT.

As customary the summary of enrolment and degrees granted is given in this Report.

This shows an increase in enrolment of one hundred and sixty-four

The most notable increase is in the College of Agriculture. This is probably due to the awakened interest over the country in agriculture, together with the fact that there is an increasing demand for men trained in the sciences related to agriculture. The development of the Department of Agriculture at Washington, D. C., has called for a large number of men in the field service as well as in the laboratory service in Washington. The development of experiment stations, colleges of agriculture and other agricultural agencies in the several states has brought to the attention of everybody that an education in agriculture fits men for immediate participation in important public service.

The six weeks Winter Course in Agriculture intended for the popular instruction of practical farmers has been well maintained for a series of years and shows that it has a firm hold upon the young and ambitious farmers of the State who have not had an opportunity for an education in agriculture.

DEGREES.

The number of degrees granted increases from year to year. The two years previous show the number of degrees and certificates granted to be three hundred and sixty and four hundred and one; the current year four hundred and eighty. Experience is showing that a considerable number of candidates complete their work after the commencement period. Frequently these candidates have so small an amount of work unfinished as to make it unnecessary to spend a half year in residence.

SUMMARY OF ENROLMENT AND OF DEGREES GRANTED.

College of Agriculture and Domestic Science—		
Graduate students	6	
Undergraduates (Agr., Hort., Forestry, degree courses)	389	
Undergraduates (Domestic Science, degree courses)	187	
Undergraduates (Certificate courses)	107	
		689
College of Arts, Philosophy and Science—		
Graduate students	58	
Undergraduates	795	
		853
Arts-Education		12
College of Education—		
Graduate students	4	
Undergraduates	58	
		62
College of Engineering—		
Graduate students	2	
Undergraduates (degree courses)	786	
Undergraduates (certificate courses)	40	
		828

College of Law		170
College of Pharmacy		87
College of Veterinary Medicine		184
Total		2,885
Names counted twice		9
Grand net total (Academic year)		2,876
Summer Session, 1910	617	
Lake Laboratory, Summer, 1910	22	
		639
Winter course in Dairying, 1911	21	
Winter course in Agriculture, 1911	162	
		183
Total		3,698
Names counted twice		259
Grand net total		3,439

DEGREES.

At the commencement held on June 14, 1911, the University granted a total of 399 degrees. These were distributed as follows:

College of Agriculture and Domestic Science	46
College of Arts, Philosophy and Science	129
College of Education	25
College of Engineering	119
College of Law	13
College of Pharmacy	6
College of Veterinary Medicine	61
Total	399

In addition to the degrees ganted, certificates for the completion of courses not leading to degrees were granted as follows:

College of Law	22
College of Pharmacy	19
College of Veterinary Medicine	17
Total	58
Degrees granted during the present academic year	23
Total number of degrees and certificates granted for the year ending June 14, 1911	480

SOCIAL STATISTICS.

In the last annual report the publication of the religious and occupational statistics elicited a great deal of interest. The fact that this report goes to press in the Autumn made it possible to furnish the statistics for the year 1910-1911. In the present report the statistics are for the year 1911-1912. The purpose in mentioning and publishing these statistics is to bring to the public and interested students a better conception of the work the State University is doing. For a number of years writers in papers and magazines have discussed the religious and social problems of colleges and universities. Nothing reliable, however, had ever been published upon the questions of religion and occupation. It is proposed to continue this custom as a matter of popular interest. It will be noticed at once that the tables will change from year to year, introducing new topics and omitting some already used. This will be especially true in the table of occupation statistics.

RELIGIOUS STATISTICS, 1911-1912.

Agudas Achim	1	Mennonites	8
Baptist	151	Methodists	1000
Catholic	172	Mormon	5
Christian	107	New Church	2
Christian Science	5	Pietist	1
Christian Union	4	Presbyterians	555
Church of God	4	Protestant	19
Confucius	1	Reformed	81
Congregational	178	Seventh Day Adventist	2
Disciples	33	Shintoism	1
Dunkards	4	Swedenborgian	1
Episcopal	150	Unitarian	16
Evangelical	31	United Brethren	77
Friends	23	United Presbyterian	44
Jewish	46	Universalist	31
Lutheran	173	None stated	157
M. B.	1		

OCCUPATION STATISTICS OF PARENTS, 1911-1912

Architects	8	Carpet weaver	1
Artists	1	Clay workers	2
Auctioneer	1	Coal operators and dealers	27
Bakers	5	Confectioners	4
Bankers	19	Contractors	78
Barbers	15	Dairymen	6
Blacksmiths	14	Dentists	4
Bookkeepers and cashiers	49	Detective	1
Brewer	1	Draughtsmen	3
Brokers	8	Dressmakers and milliners	4
Business men	13	Druggists	24
Butchers	6	Electricians	8
Carpenters	45	Engineers	35

Farmers	750	Officials of private corporations...	88
Florists	2	Oil producers	7
Foremen	40	Opticians	2
Gardeners and nurserymen	6	Painters and decorators	13
Glass workers	10	Photographer	1
Grain dealers	10	Physicians and nurses	75
Grocers	47	Plumbers	6
Hardware dealers	13	Pork packer	1
Harness makers	2	Professors and teachers	68
Importer	1	Privateer	1
Insurance	40	Public service—city, state and government officials	78
Jewelers	6	Publishers and printers	27
Judges and attorneys	91	Railroad employes	113
Laborers	12	Real estate	38
Landscape gardener	1	Restaurant and hotel keepers	10
Laundry men	2	Salesmen, clerks and agents	100
Lecturers	5	Servants	12
Librarians and custodians	8	Shoemakers	5
Lighthouse keeper	1	Spring maker	1
Lumbermen	24	Steamboat captain	1
Manufacturers	82	Stockmen, livery men and drivers	24
Masons	10	Tailors	18
Mechanics and machinists	36	Tanner	1
Merchants	186	Tinners	6
Metal workers	20	Transfer and storage	3
Millers	12	Traveling salesmen	55
Millwright	1	Undertakers	6
Miner	1	Upholsterers	3
Ministers	60	Veterinary surgeons	9
Monument dealers	5	No occupation stated	422
Musicians	3		

SUMMER SESSION

The fact that the Summer Session usually begins the latter part of June immediately following the Commencement justifies the insertion of the report for that session, although its close is subsequent to the date of this report. From the detailed report submitted by the Administrative Board the following extracts are taken:

I. TOTAL ATTENDANCE

	1911	1910
Columbus	736	616
Lake Laboratory	28	21
Grand total	764	637

II. COLLEGIATE DISTRIBUTION AT COLUMBUS

	1911	1910
Arts and Education	615	510
Shop Work Students	59	55
Shop Work Students taking other work	49	40
Civil Engineering	13	11
	736	616

III. OCCUPATIONS OF STUDENTS AT COLUMBUS

	1911	1910
College Instructors	21	18
Superintendents and High School Principals	81	27
Teachers, mostly High School	198	187
Business	23	10
College Students (not otherwise classified)	390	360
Unclassified	23	14
	736	616

IV. PREPARATION OF STUDENTS AT COLUMBUS

	1911	1910
Graduate Students	162	130
Collegiate	560	476
Preparatory	14	10
	736	616

The total attendance above shows a gain of 127 for the Summer of 1911. The Summer Session Board feels, however, that this is a matter of small importance in comparison with a systematic advance in the rank of the summer student. The general improvement in this latter direction, which has been noted each summer, still continues. Of the 736 students at Columbus 162 hold degrees from various colleges and universities, and when the attendance from the Lake Laboratory is added, it will be seen that twenty-five per cent of the summer attendance may be considered as in the graduate class.

The enrolment shows students from fifty-three (53) institutions and one hundred and ninety (190) degrees. Last year there were fifty-four (54) institutions and one hundred and fifty-four (154) degrees. The apparent discrepancy between these figures and the number of degree holders is reconciled, when it is known that a considerable number of students held two degrees.

Many of the degree holders have registered in the Graduate School, and are working systematically toward another degree.

Beside those holding degrees, there were in attendance during the summer three hundred and twenty-one (321) former students of eighty-four (84) different colleges and universities. Fifty-one (51) of these institutions are outside of Ohio.

It can easily be seen from the foregoing tables of this report that the Summer Session of the University has continued its steady growth in numbers, quality and influence. Within six years it has quadrupled in attendance, courses and faculty, and is now a most important part of the University work. Possibly more than any other feature, the Summer Session (including the courses at the Lake Laboratory) has helped the University to enter into wide relationships with other colleges of Ohio and educational institutions elsewhere, to secure co-operation from

the influential teachers of the State, and to extend its graduate work and its sphere of usefulness generally.

The encouraging character of the above report is sufficient justification of the appropriation made by the Legislature for the Summer Session. The appropriation by the last Legislature, however, was reduced. The result of this was to make it necessary to draw upon the general fund for the maintenance of the Summer Session and thereby cripple, in a degree, the work of the ordinary year. The reduction was made in the last hours of the session and it is believed that if the facts had been known such reduction would never have been made. The actual cost of the Summer Session is practically $15,000. As compared with the ordinary expenditures of the year this is not an expensive session. The Summer Session is really an enlargement of the services of the University and should be provided for by an additional appropriation. The experimental stage has passed and it is now confidently hoped that the next session of the Legislature will recognize the importance of this work by making adequate provision for it rather than to reduce the appropriation.

THE LAKE LABORATORY

The Lake Laboratory at Cedar Point, near Sandusky, is covered as far as statistics is concerned in the summary of the Summer Session. It is sufficiently individual, however, to warrant a separate statement.

This Lake Laboratory effort has been carried for a number of years with the special purpose of providing facilities for advanced study during the Summer Session in a region where the materials for biological research were near at hand. There has been no effort made to enlist elementary students or to popularize the institution outside of the interests of teachers of biology and advanced students in the universities. The custom has prevailed of selecting the Faculty from a number of Ohio institutions and in one or two instances we have selected men from outside of the State. The attendance has been chiefly of teachers in the secondary schools and in colleges. Some advanced students in universities who have been especially interested in biological sciences have spent their summers at the Lake Laboratory. The attendance, however, has reached the capacity several times. There is now a demand for another building, which need not be expensive but which would enable the University to carry on in a satisfactory way this important service.

AGRICULTURAL EXTENSION

The University has now had sufficient experience in the work of agricultural extension to offer a deliberate judgment as to its value. The beginning of this work was speculative and altogether experimental. Experience has, however, demonstrated the educational value of the work and the interest shown by the communities has been so well sustained as

to thoroughly justify the expenditure of the money. There are certain limitations in the statute authorizing this work which seemed to be wise and necessary, namely, that not more than one school shall be held in any one county in the given year. If the appropriation could be somewhat increased it might be well to provide that not more than two schools should be held in one county in the given year. The topography of Ohio and the location of its farming communities make it impracticable for the one school to serve the entire county, and it is believed that a little more flexibility in the statute would increase the efficiency without sacrificing the principle which called for the original limitation. It is further suggested that some amendment might be made that would permit an extension school during the summer session at the university to meet certain demands especially in the interest of domestic science. The statistics of the work in Agricultural Extension will be found in the report of the Dean of the College of Agriculture which is submitted as a part of this report.

PUBLICATION BOARD

The Publication Board was authorized by the Board of Trustees January 9, 1906, upon a recommendation from the University Faculty. The Board was organized for two general reasons. First, in order to have an official and responsible supervision of all the bulletin publications in the University, and, second, to secure definite regularity in their publication and to reduce the expense of distribution. In addition to these general purposes the Board has been invested with the entire supervision of University publications and announcements. These publications are of the following general classes. First—the college bulletins or catalogues. Second—the general announcement bulletins such as the time schedule, bulletins of entrance information. Third—bulletins announcing special courses and schedules, the Graduate School, the Summer Session, the Winter Course, etc. Fourth—special University announcements including illustrative matter. Upon request the Editor has presented a detailed report of the work of the Publication Board which is submitted as a part of this Report. This statement will be found to set out very clearly the amount of printed material issued by the University and the cost of the same.

HIGH SCHOOL VISITORS

The work of visiting high schools has been full of interest and encouragement during the past year. There is abundant evidence of the fact that the University has been of great service to the high schools by way of counsel and stimulation. Some things need to be made entirely clear in the public mind. First of all, the University is not visiting high schools for the purpose of attracting students to the University or for the purpose of insisting that courses of study shall prepare for entrance

to any college or university. The main thing insisted upon and the main purpose in visiting high schools is to urge a better quality of teaching and of teachers and the better equipment of schools. This is in the interest of the community itself primarily and the community in the end will reap the largest amount of benefit. The University, like many other institutions, is steadily coming to the position that entrance to the state university will be made possible after the completion of a successful high school course of four years. The interests of the community and of the students should predominate. It is a false philosophy to assume that the high schools of the State are organized for the sake of and in the interest of the university. On the other hand it is equally false to assume that graduation from any sort of a high school with any sort of equipment or teaching furnishes a basis for a young man or young woman to proceed further in the pursuit of higher education. It is probably true that a considerable portion of high school graduates ought not to spend time in college or university. Unless the student can make advantageous use of the time in college he would do much better to make good use of it somewhere else. The interests of students therefore and of the community at large require that some sort of supervision should be made of our schools and that they should be so related to each other that capable students may have opportunity for a progressive education, and that students who are not properly prepared should not make the mistake of attempting a course of education for which they have perhaps neither the well defined taste nor an adequate preparation. The college may spoil a considerable percentage of its students by putting them where they do not belong. Higher education is too expensive for the individual and too serious a matter to be undertaken without some serious consideration. The visitation of high schools, therefore, aims to hold up before such schools the right ideals about higher education and to encourage the right ideals in high schools. The report of the High School Visitors is submitted with this Report, and attention called to the character of the work therein.

REPORTS OF DEANS

The reports of the Deans of the several colleges are submitted as a part of this Report, and attention is directed to them for a discussion of the problems from the point of view of the college. Attention may here be directed to the suggestion by the Dean of the Engineering College concerning an Engineering Experiment Station.: This matter has been under consideration for some time, but this is the first public statement concerning it It is hoped the next Legislature will see the importance of this enterprise and make provision for its foundation.

APPROPRIATIONS

In accordance with the custom a statement of the appropriations made by the last Legislature is given in this report. They are are as follows:

For the Year 1912

Equipment power house	$ 8,000.00
Extension work in Agriculture and Mechanic Arts	40,000.00
Repairs and improvement of buildings and grounds	25,000.00
Scientific apparatus laboratory equipment	5,000.00
Uses and purposes of library	20,000.00
Live stock and maintenance	5,000.00
Veterinary Clinic building equipment	5,000.00
Fire escapes and remodeling University Hall	3,000.00
Bonds due December 1, 1911	25,000.00
Interest on $55,000 bonds due December 1, 1911	2,475.00
For construction library to cost $250,000 complete	100,000.00
Equipment Mechanical Engineering Laboratory	5,000.00
Equipment Electrical Engineering Laboratory	5,000.00
Equipment Agronomy Department	2,000.00
Equipment University farm	2,000.00
Equipment Dairy Department	2,000.00
Summer Session	10,000.00
Completion of coal handling plant	4,100.00
Extension tunnel system to Library building	6,300.00
Additional farm lands for grazing purposes and improvements	10,000.00
Farm machinery	2,000.00
Storage building	10,000.00
Poultry building and equipment complete	7,500.00
Sidewalks, High Street and Eleventh Avenue	2,500.00
Total	$306,875.00

For the Year 1913

Equipment power house	$ 7,000.00
Extension work in Agricultural and Mechanic Arts	40,000.00
Repairs and improvements buildings and grounds	25,000.00
Scientific apparatus, Laboratory equipment	5,000.00
Railway to grounds	5,000.00
Uses and purposes of library	20,000.00
Live stock and maintenance	5,000.00
Veterinary Clinic building equipment	5,000.00
Fire escapes and remodeling University Hall	3,000.00
Bonds due December 1, 1912	30,000.00
Interest on $30,000 bonds due December 1, 1912	1,350.00
For construction library to cost $250,000 complete	25,000.00
Equipment Mechanical Engineering Laboratory	5,000.00
Equipment Electrical Engineering Laboratory	5,000.00
Extension hot water heating system	19,831.00
Equipment Agronomy Department	2,000.00
Equipment for University farm	2,000.00
Equipment Dairy Department	2,000.00
Summer Session	5,000.00

Equipment new Library building	50,000.00
Additional farm lands for grazing purposes and improvements	10,000.00
Botany and Zoology building and equipment to cost $100,000 complete	50,000.00
Sidewalks, High Street and Eleventh Avenue	2,500.00
Total	$324,681.00

It is worth while to call attention to the fact that the Legislature has steadily increased the appropriations for the maintenance of the University. It is also clearly evident that the increase does not quite keep pace with the growth of the University. This could hardly be expected, nevertheless the imperative demand that is made by the increasing number of students cannot be overlooked or avoided. The University has its needs in two general directions. First—the extension of the plant in order to provide the facilities for education, and, second, the extension of the teaching force necessary. This means of course a larger fund available for the payment of salaries. This fund should do two things, provide for new instruction and for the increase of salaries for such men as are inadequately paid. It is not to be expected that the University may keep men on the instructional force permanently for a smaller salary than is paid by a considerable number of our first-class high schools for instruction in secondary education. There is a tendency to assume that every University instructor receives the maximum salary paid to any professor, while as a matter of fact a large proportion of the teaching force falls very far below the maximum salary. Attention has been directed in previous reports to the fact of the policy to make no provision for a period beyond the life of the Legislature which makes it difficult for the University to assume any obligations beyond the current year. I respectfully suggest, therefore, that if a law could be passed which would provide that certain definite appropriations should be made the interests of education would be advanced. It is true that appropriations may not be for a period longer than two years, but there would seem to be no reason why a statute should not be passed making definite certain educational policies. If occasion demanded it the statute could be repealed or amended, but as long as it existed the educational policy would be definite, and the Trustees would know precisely what might be undertaken with the authority of the State.

CONCLUSION

The year upon review shows substantial progress for the University and leaves little cause for regret which it would have been possible to remove. The co-operation on the part of Trustees and Faculty has been most cordial and no disasters of any sort have occurred which disturbed the onward movement of the University.

The usual statistical tables as required by law are submitted herewith as a part of the Report. Especial reference is made to the report of the

Secretary of the Board of Trustees and to the system of accounting therein set forth. This system has been developed in the last two years from Bulletin No. 3 of the Carnegie Foundation, and with the advice and help of Mr. Wilbur E. Baker. The generous appreciation of this system of accounting and of the report printed a year ago as expressed by other universities justifies special mention of it in this Report.

Respectfully submitted,

W. O. THOMPSON,
President.

OFFICE OF THE BOARD OF TRUSTEES,
THE OHIO STATE UNIVERSITY,

OCTOBER 1, 1911.

HONORABLE O. E. BRADFUTE, *Chairman, Board of Trustees,*

SIR:—I have the honor to submit herewith, the forty-first annual report of the Secretary of the Board of Trustees, for the fiscal year ending June 30, 1911.

This report covers the following divisions:

1. Financial report.
2. Certificate of State Examiner.
3. Inventory of property (See Schedule J., of Financial Report).
4. Gifts.
5. Loans.
6. Classification of Instructional Force.
7. Salaries of Officers, Instructors and Employees.
8. Estimates for year ending June 30, 1912.

FINANCIAL REPORT

OF

THE OHIO STATE UNIVERSITY

For the Year Ending June 30, 1911

SCHEDULES A TO S

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CONSOLIDATED STATEMENT.

		Schedule A
INCOME AND EXPENDITURES		
Cash balance July 1, 1910		$9,693.70
Total income for year, *Schedule B-1*	$924,611.11	
Total expenditure for year, *Schedule C-1*	924,828.65	
Net deficit for year		217.54
Cash balance June 30, 1911		$9,476.16
ASSETS AND LIABILITIES		
Current assets at end of year, *Schedule D*	$440,823.71	
Current liabilities at end of year, *Schedule D*		$412,949.46
Investment assets at end of year, *Schedule D*	$933,318.93	
Investment liabilities at end of year, *Schedule D*		933,318.93
Educational Plant—		
Value of lands, buildings and equipment, *Schedule D*	4,250,791.06	
Debt: bonds, mortgages, etc., against plant, *Schedule D*		55,000.00
Net investment or capital account		4,223,665.31
	$5,624,933.70	$5,624,933.70

Schedule B-1

INCOME

Description.	Items.	Totals.
INCOME FROM STUDENTS:		
Tuition, incidental and laboratory fees, *Schedule B-2*	$77,545 50	
Special fees, degrees, etc., *Schedule B-2*	2,491 75	
For supplies, chemicals, laboratory material, etc.	19,397 47	
For dormitories—Oxley Hall	14,456 75	
For dining halls—details	.....	
For locker rent	2,665 50	
		$116,556 97
INCOME FROM INVESTMENTS OF:		
Endowments for general purposes, *Schedule P* (see below)	.....	
Endowments for designated purposes, *Schedule Q* (see below)	.....	
Other investments (if any)	.....	
		$.....
INCOME FROM GRANTS BY NATION, STATE AND SPECIAL TAXATION:		
State Aid: Income from endowments granted by State	.....	
Income from endowments for general purposes	$12,542 76	
Income from endowments for designated purposes	3,749 80	
Tax levy for current expenses (rate mills) 16-100	386,627 56	
Appropriation for current expenses	.....	
Tax levy for building or other special purposes	.....	
Appropriations for buildings or other special purposes	281,240 84	
Federal Aid: Income from land grant act of July 2, 1862 (Paid by State)	31,450 59	
Income from other land grants—Va. Mil. Lands (Paid by State)	7,717 62	
Additional aid acts of Aug. 30, 1890, and March 4, 1907	45,000 00	
		$768,329 17
GIFTS FOR CURRENT EXPENSE:		
For general Purposes	.....	
(*Details*)		
For designated purposes	.....	
(*Details: such as gifts for immediate use on lands, buildings, etc.*)		
National Brick Makers' Association	$250 00	
Louis Siebert—Library	200 00	
Ohio Union	3,222 83	
		$3,672 83
INCOME FROM OTHER SOURCES:		
(*Details*)		
For interest on deposits	$336 39	
For rents—buildings	2,530 00	
For sale of produce—dairy and farm	24,589 61	
For veterinary clinic	1,607 05	
For Virginia Military Lands	195 00	
For testing cows	2,067 06	
For Miscellaneous sales, old material, etc.	1,093 82	
		$32,418 93
TEMPORARY ACCOUNTS:		
Refunds and reimbursements	$3,633 21	
		$3,633 21
Total income		$924,611 11

RECEIPTS FROM STUDENTS

Schedule B-2

	Arts.	Agriculture.	Education.	Engineering.	Law.	Pharmacy.	Veterinary Medicine.	Summer School.	Preparatory.	Normal.	Total.
*Number of Students registered	826	861	69	856	170	87	185	638			3,692
Number of Students paying fees	814	754	69	855	170	87	168	631			3,548
Number of Students admitted without payment	12	107	0	1	0	0	17	7			144
TUITION, INCIDENTAL AND LABORATORY FEES:											
Total receipts from all students	$17,104 00	$17,774 45	$1,459 00	$22,918 25	$9,418 00	$2,423 00	$5,718 00	$3,995 50			$80,780 20
(Less Summer school receipts of 1910-11 entered in 1909-10)											3,266 70
											$77,513 50
Total amount of fees paid from scholarships or fellowship funds				32 00							$32 00
Total receipts on account of fees corresponding to 1st item, *Schedule B-1*											$77,545 50
Tuition fee paid per student					45 00						
Incidental fee paid per student	20 00	20 00	20 00	20 00	15 00	20 00	20 00	6 00			
Non-residents of State	10 00	10 00	10 00	10 00	10 00	10 00	10 00				
Incidental fee Lake Laboratory								20 00			
SPECIAL FEES:											
Auditor's fees											$31 50
Special Examinations											184 00
Diplomas											2,276 25
Total receipts on account of special fees corresponding to 2nd item, *Schedule B-1*											$2,491 75

*259 students in summer schools registered in other colleges.

Schedule C-1

CLASSIFIED EXPENDITURES

	Items.	Totals.
EXPENSE:		
Salaries	$182,045 83	
*Employees and extra labor	75,189 04	
Material and general supplies	40,679 98	
Laboratory supplies	25,590 58	
Coal and gas	22,703 95	
Water	6,343 92	
Stationery and office supplies (including postage)	6,146 05	
Printing, bulletins and catalogs	11,460 68	
Advertising	582 04	
Traveling expenses	9,728 36	
Oxley Hall—Food supplies	6,034 55	
Repairs—Equipment	3,832 41	
Repairs—University Hall (Contract)	13,713 00	
Freight and Cartage	3,743 21	
Incidentals	7,805 13	
Feed—Live stock	3,743 09	
Virginia Military Lands	2,512 68	
Cow testing (see receipts)	2,044 66	
Trustees expenses	322 90	
Research	.....	
Scholarships and student aid	3,354 00	
Interest on bonded debt	3,037 50	
Total Expenses, *Schedule C-2*		$730,613 56
EQUIPMENT:		
Apparatus	$16,205 61	
Books	19,125 50	
Collections	70 29	
Furniture and Fixtures	12,715 65	
Horses, wagons and harness	2,434 55	
Live stock	5,248 50	
Machinery, tools and implements	32,042 07	
Tunnels, conduits and heating lines	.....	
Total equipment, *Schedule C-2*		$87,842 17
NEW BUILDINGS, *Schedule C-2*		$60,493 75
RAILWAY, *Schedule C-2*		6,105 96
SEWERS, *Schedule C-2*		.....
Grading, Planting, Roads, Walks, etc., *Schedule C-2*		11,140 00
BONDS—Redeemed		25,000 00
TEMPORARY ACCOUNTS:		
Refunds and reimbursements		3,633 21
Total Expenditures		$924,828 65

* Amount paid students, $14,626.69.

Schedule C-2

EXPENDITURES BY DEPARTMENTS OR DIVISIONS

Description.	Expense Items.	Totals.	Equipment Items (Assets)	Totals.	Total Cost of Department or Division.	Totals.
DEPARTMENTS: (*Details Expense items, Sch. C-3; Details equipment items, Sch. C-4.*)						
Agricultural Chemistry	$8,324 83		$799 64		$9,124 47	
Agronomy	5,659 37		329 87		5,989 24	
American History	4,606 85		45 55		4,652 40	
Anatomy and Physiology	6,814 72		250 04		7,064 76	
Animal Husbandry	18,661 72		5,449 96		24,111 68	
Architecture	5,666 82		149 54		5,816 36	
Art	4,233 01		510 13		4,743 14	
Astronomy	4,268 10		128 50		4,396 60	
Bacteriology	5,997 66		239 94		6,237 60	
Botany	8,098 91		904 39		9,003 30	
Ceramic Engineering	9,098 97		272 56		9,371 53	
Chemistry	21,324 26		1,994 47		23,318 73	
Civil Engineering	12,348 16		219 28		12,567 44	
Dairying	23,677 25		2,949 24		26,626 49	
Domestic Science	8,372 85		163 51		8,536 36	
Economics and Sociology	12,368 36		7 50		12,375 86	
Electrical Engineering	7,957 38		5,328 23		13,285 61	
Engineering Drawing	10,588 84		84 33		10,673 17	
English	15,350 00		57 29		15,407 29	
European History	5,519 74		9 00		5,528 74	
Forestry	3,287 82		65 46		3,353 28	
Geology	7,648 40		405 49		8,053 89	
German	7,181 51		96		7,182 47	
Greek	6,760 46		25 89		6,786 35	
His. and Philosophy of Ed.	3,000 60		.....		3,000 60	
Horticulture	7,389 70		554 95		7,944 65	
Industrial Arts	10,533 36		408 00		10,941 36	
Latin	2,750 50		14 86		2,765 36	
Law	18,195 03		4 20		18,199 23	
Manual Training	1,500 00		.....		1,500 00	
Mathematics	18,571 55		41 41		18,612 96	
Mechanical Engineering	15,174 81		7,046 81		22,221 62	
Mechanics	4,417 71		3 00		4,420 71	
Metallurgy & Mineralogy	6,629 09		178 62		6,807 71	
Meteorology	500 00		.....		500 00	
Military Science	2,008 45		21 55		2,030 00	
Mine Engineering	4,579 91		547 58		5,127 49	
Pharmacy	5,351 26		372 73		5,723 99	
Philosophy	4,300 00		53 00		4,353 00	
Physical Education	6,885 08		161 51		7,046 59	
Physics	16,822 19		1,297 91		18,120 10	
Political Science	3,851 20		.....		3,851 20	
Principles and Prac. of Ed.	1,836 12		.....		1,836 12	
Psychology	4,304 28		.....		4,304 28	
Romance Languages	10,313 74		9 65		10,323 39	
Rural Economics	11,268 19		2,213 30		13,481 49	
School Administration	2,820 76		21 57		2,842 33	
Veterinary Medicine	24,153 06		5,214 02		29,367 08	
Zoology and Entomology	8,986 12		988 80		9,974 92	
Total Departments		$419,958 70		$39,544 24		$459,502 94
Summer Schools	$15,950 04		$35 22		$15,985 26	
Winter Course Lectures	644 03		.....		644 03	
Total		$16,594 07		$35 22		$16,629 29
Library	$16,135 09		$19,655 23		$35,790 32	
Total Library		$16,135 09		$19,655 23		$35,790 32
Forward		$452,687 86		$59,234 69		$511,922 55

Schedule C-2—Continued

EXPENDITURES BY DEPARTMENTS OR DIVISIONS—Continued

Description.	Expense Items.	Totals.	(Assets) Items Equipment	Totals.	Total Cost Division. ment or of Depart-	Totals.
Brought forward.....		$452,687 86		$59,234 69		$511,922 55
SPECIAL FUNDS: (*Details expense items in Sch. C-3; Details equipment items in Sch. C-4*)						
Archæology	$741 46		.....		$741 46	
High School Visitors.....	5,377 43		.....		5,377 43	
Agricultural Extension....	47,848 91		$3,103 20		50,952 11	
Total Special Funds.....		$53,967 80		$3,103 20		$57,071 00
ADMINISTRATION AND GENERAL ACCOUNTS:						
Executive Offices..... (*Details expense items in Sch. C-3; Details equipment items in Sch. C-4*)	$35,513 59		$1,126 39		$36,639 98	
Store Room ..... (*Details expense items in Sch. C-3; Details equipment items in Sch. C-4*)	16,722 52		936 16		17,685 68	
General Accounts..... (*Details expense items in Sch. C-3; Details equipment items in Sch. C-4*)	18,366 27		1,300 82		19,667 09	
Commencement Exercises.. (*Details, Schedule C-3.*)	1,909 74		.....		1,909 74	
Trustees' expenses.....	322 90		.....		322 90	
Advertising	582 04		.....		582 04	
Water	6,343 92		.....		6,343 92	
Total Adm. & Gen'l.		$79,760 98		$3,390 37		$83,151 35
OPERATION, MAINTENANCE AND EQUIPMENT OF PLANT:						
Salaries: Janitors, caretakers, etc.....	$19,695 37		.....		$19,695 37	
Salaries: Supt. Bldg., Engineers, mechanicians, etc.	16,910 48		.....		16,910 48	
Coal and Gas.....	22,703 95		.....		22,703 95	
Heat, power & light plant. (*Details expense items in Sch. C-3; Details equipment items in Sch. C-4*)	15,467 09		$20,523 02		35,990 11	
Roads and Grounds..... (*Details expense items in Sch. C-3; Details equipment items in Sch. C-4*)	4,947 04		1,167 86		6,114 90	
Repairs, Buildings, Contracts, University Hall..	13,713 00		.....		13,713 00	
Repairs, Buildings, (Current) ..... (*Details, Schedule C-3.*)	27,710 03		.....		27,710 03	
Total operation, Maintenance and Equipment...		$121,146 96		$21,690 88		$142,837 84
Amt. forward.....		$707,563 60		$87,419 14		$794,982 74

Schedule C-2—Continued

EXPENDITURES BY DEPARTMENTS OR DIVISIONS—Continued

Description.	Expense Items.	Totals.	Equipment Items (Assets)	Totals.	Total Cost of Department or Division.	Totals.
Total brought forward..		$707,563 60		$87,419 14		$794,982 74
DORMITORIES AND DINING HALLS: *(Details expense items in Sch. C-3; Details equipment items in Sch. C-4)*						
Oxley Hall (see Receipts)	$12,101 12		$423 03		$12,524 15	
Total Dormitories, etc...		$12,101 12		$423 03		$12,524 15
MISCELLANEOUS EXPENSES:						
Virginia Military Lands...	$2,512 68		.....		$2,512 68	
Cow testing (see Receipts)	2,044 66		.....		2,044 66	
Scholarships and Student Aid	3,354 00		.....		3,354 00	
Total Misc. Expenses....		$7,911 34				$7,911 34
Interest on bonded debt.....		3,037 50				3,037 50
Total Ex. and Equip....		$730,613 56		$87,842 17		$818,455 73
NEW BUILDINGS: *Details in Schedule C-4.*						
Contracts			$51,514 37			
Architects			8,490 76			
Inspection			.....			
Printing and Advertising..			117 78			
Extra labor and material..			370 84			
Total Expenditures for New Buildings						$60,493 75
RAILWAY:						
Contracts			$3,675 75			
Engineering & Inspection.			415 93			
Printing and Advertising.			.....			
Extra Labor and Material.			2,014 28			
Total Expenditures for Railway						$6,105 96
SEWERS:						
Contracts			.....			
Printing and Advertising.			.....			
Engineering & Inspection.			.....			
Extra Labor and Material.			.....			
Total Expenditures for Sewers						.....
GRADING, PLANTING, ROADS, WALKS, ETC, *(Details)*.....						
Landscape Architects			$537 26			
Labor			5,627 40			
Material			4,975 34			
						$11,140 00
Bonds Redeemed.....						$25,000 00
TEMPORARY ACCOUNTS:						
Refunds and reimbursements						3,633 21
Total Expenditures..... *Schedule C-1.*						$924,828 65

DEPARTMENTAL EXPENSES

Schedule C-3

Department or Division.	Salaries Instruction.	Salaries Superintendent and Others.	Employees and Extra Labor.	Stationery and Office Supplies.	Incidentals.	Laboratory Supplies.	Material and General Supplies.	Repairs of Equipment.	Feed.	Freight and Cartage.	Research.	Total Expenses.
Agricultural Chemistry	$7,270 00		$793 25	$29 36	$1 76	$138 31	$74 50	$6 00	$11 65			$8,524 83
Agronomy	5,020 00		383 93	36 39	40 60	51 25	102 18	60	44 42			5,659 37
American History	4,600 00		2 10	4 00					75			4,606 85
Anatomy and Physiology	6,700 00		12 50	1 14		41 78	57 34		1 96			6,814 72
Animal Husbandry	6,650 00	$1,200 00	5,123 77	95 49	712 75		1,093 93	113 35	399 61	$3,272 82		18,661 72
Architecture	5,100 00		288 15	15 77	17 89	218 67	16 07	4 51	5 76			5,666 82
Art	4,100 00		89 65	1 20	7 05	15 74	13 16		6 21			4,233 01
Astronomy	4,050 00		25 19	12 74	67 49	2 28	99 83		10 57			4,268 10
Bacteriology	5,750 00		26 03	31 11		66 25	117 20		7 07			5,997 66
Botany	7,375 00	600 00	3 16	30 45	9 86	54 90	20 52		5 02			8,098 91
Ceramic Engineering	8,150 00		201 00	58 76	30 30	184 38	358 32	2 50	113 71			9,098 97
Chemistry	19,850 00		567 43	173 97	39 13	447 50	196 47	1 40	48 36			21,324 26
Civil Engineering	11,900 00		200 61	42 66	38 24	36 28	124 60		5 77			12,348 16
Dairying	4,900 00		4,919 90	144 24	80 68	11,878 87	1,167 34	72 05	514 17			23,677 25
Domestic Science	6,650 00	410 00	294 79	32 39	8 78	764 06	195 18	12 10	5 60			8,372 85
Economics and Sociology	12,050 00		240 00	59 66	15 05		2 90		75			12,368 36
Electrical Engineering	5,800 00	900 00	355 90	39 93	17 49	104 43	559 17	16 60	163 86			7,957 38
Engineering Drawing	10,500 00		45	30 92	10 72	19 61	19 46	4 50	3 18			10,588 84
English	15,350 00											15,350 00
European History	5,500 00			19 74								5,519 74
Forestry	3,200 00		52 02	10 31	4 25	6 45	11 63		3 16			3,287 82
Geology	7,420 00		168 09	1 20	6 35	6 37	39 27		7 12			7,648 40
German	7,155 00		8 76	13 35	4 40							7,181 51
Greek (Latin)	6,750 00		1 20	8 60					66			6,760 46
History and Philosophy of Education	3,000 00			60								3,000 60
Horticulture	5,100 00		1,568 38	112 10	23 09	301 16	260 03		24 94			7,389 70
Industrial Arts	8,170 00		620 25	24 62	11 76	907 11	751 91	8 20	39 51			10,533 36
Latin (See Greek)	2,750 00			50								2,750 50
Law	18,100 00		44 25	11 41	37 86		1 51					18,195 03
Manual Training	1,500 00											1,500 00
Mathematics	18,550 00		10 00	3 25	8 30							18,571 55
Mechanical Engineering	8,600 00	1,510 00	1,345 97	64 25	53 55	164 44	3,211 90	17 65	207 05			15,174 81
Mechanics	4,400 00		2 60	4 85		9 70	56					4,417 71
Metallurgy and Mineralogy	5,750 00		593 96	39 03	8 86	140 26	58 26	9 47	29 25			6,629 09
Meteorology	500 00											500 00
Military Science and Tactics	750 00		1,070 95	3 23	153 02		22 78	50	7 97			2,008 45

Mine Engineering	4,200 00	.....	255 25	9 53	89 15	8 00	17 98	.....	.....	.....	.....	4,579 91
Pharmacy	5,200 00	.....	63 76	10 54	18 45	42 51	11 31	3 70	99	.....	.....	5,351 26
Philosophy	4,300 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,300 00
Physical Education	5,570 00	360 00	514 77	45 60	296 46	94 64	.....	.....	3 61	.....	.....	6,885 08
Physics	15,200 00	1,200 00	54 75	18 79	11 37	122 88	192 41	3 50	18 49	.....	.....	16,822 19
Political Science	3,850 00	.....	.....	1 20	.....	.....	.....	.....	.....	.....	.....	3,851 20
Principles and Practice of Education	1,800 00	.....	.....	16 12	20 00	.....	.....	.....	.....	.....	.....	1,836 12
Psychology	4,300 00	.....	.....	.....	.....	.....	4 28	.....	.....	.....	.....	4,304 28
Romance Languages	10,300 00	.....	.....	13 74	.....	.....	.....	.....	.....	.....	.....	10,313 74
Rural Economics	3,750 00	1,260 00	4,582 64	160 82	573 75	.....	215 78	249 97	4 96	470 27	.....	11,268 19
School Administration	2,750 00	.....	.....	50 28	9 70	.....	9 62	.....	1 16	.....	.....	2,820 76
Veterinary Medicine	15,950 00	450 00	1,769 88	86 35	114 13	1,424 26	4,255 66	7 74	95 04	.....	.....	24,153 06
Zoology and Entomology	8,700 00	.....	94 70	19 89	5 16	29 15	106 67	.....	30 55	.....	.....	8,986 12
Total Departmental Exp.	$344,830 00	$7,890 00	$26,329 99	$1,590 08	$2,547 40	$17,281 24	$13,389 68	$534 34	$1,822 88	$3,743 09	.....	$419,958 70

DEPARTMENTAL EXPENSES—Concluded

Schedule C-3—Concluded

Department or Division.	Salaries	Salaries Assistants, Clerks and Stenographers.	Employees and Extra Labor.	Stationery and Office Supplies.	Incidentals.	Laboratory Supplies.	Material and General Supplies.	Repairs of Equipment.	Freight and Cartage.	Traveling Expenses.	Printing Bulletins and Catalogs.	Totals.
SPECIAL INSTRUCTION:												
Summer Schools	$15,024 16	.....	$260 93	$139 04	$188 33	$2 90	$118 81	.....	$78 57	$137 30	.....	$15,950 04
Winter Course Lectures	390 00	.....	57 20	.....	.....	.....	9 68	.....	.....	126 55	$60 60	644 03
Total Special Instruction Dept. Expense	$15,414 16	.....	$318 13	$139 04	$188 33	$2 90	$128 49	.....	$78 57	$263 85	$60 60	$16,594 07
LIBRARY	$2,000 00	$8,555 00	$2,241 00	$174 15	$58 21	.....	$774 80	$2,097 85	$234 08	.....	.....	$16,135 09
SPECIAL FUNDS:												
Archæology	.....	720 00	7 00	6 45	.....	.....	8 01	.....	.....	.....	.....	741 46
High School Visitors	4,400 00	.....	.....	18 52	.....	.....	.....	.....	.....	$958 91	.....	5,377 43
Agricultural Extension	21,475 00	2,287 50	7,551 36	1,725 43	297 86	.....	1,342 76	3 05	361 22	7,576 64	5,228 09	47,848 91
Total Special Funds	$25,875 00	$3,007 50	$7,558 36	$1,750 40	$297 86	.....	$1,350 77	$3 05	$361 22	$8,535 55	5,228 09	$53,967 80
EXECUTIVE OFFICERS:												
President	$7,000 00	$3,200 00	$3 25	$276 69	111 09	.....	10 00	4 25	11 31	.....	77 25	10,693 84
Secretary	2,300 00	6,327 50	499 10	502 27	277 15	.....	18 77	6 50	8 31	13 30	352 80	10,305 70
Registrar	1,400 00	2,100 00	312 27	152 13	60 75	.....	7 00	50	7 95	.....	335 14	4,375 74
Editor and Board of Publication	*1,483 32	540 00	810 76	811 03	19 90	.....	48 94	.....	84 36	.....	4,853 61	8,651 92
Entrance Board	720 00	600 00	90 73	11 12	15 50	.....	7 14	.....	.....	.....	41 90	1,486 39
Total Executive Officers.	$12,903 32	$12,767 50	$1,716 11	$1,753 24	$484 39	.....	$91 85	$11 25	$111 93	$13 30	5,660 70	$35,513 59
STORE ROOM	$1,080 00	$1,622 50	$1,129 30	$196 28	$93 00	$8,306 44	$4,021 06	$10 95	$262 99	.....	.....	$16,722 52
GENERAL EXP. ACCT.	.....	8,295 00	3,779 47	477 60	2,192 21	.....	2,263 72	5 05	60 91	915 66	376 65	18,366 27
COMMENCEMENT EXERCISES	.....	.....	398 28	25 70	1,293 94	.....	56 18	.....	1 00	.....	134 64	1,909 74
HEAT, POWER AND LT.	.....	.....	9,229 93	17 33	132 87	.....	4,346 23	1,001 69	739 04	.....	.....	15,467 09
ROADS AND GROUNDS.	.....	.....	4,029 72	.....	278 64	.....	556 52	65 81	16 35	.....	.....	4,947 04

REPAIRS—BUILDINGS, Current			14,779 15		35 52		12,783 70	57 42	54 24			27,710 03
OXLEY HALL	1,200 00		$3,679 60	$22 23	$202 76		$916 98	$45 00				$12,101 12
Food Supplies						$6,034 55						

*Part time.

LANDS, BUILDINGS AND EQUIPMENT *Schedule C-4*

EQUIPMENT.

Department or Division.	Apparatus	Books	Collections	Furniture and Fixtures	Horses, Wagons and Harness	Live Stock	Machinery, Tools and Implements	Totals
Agricultural Chemistry	772 74			$25 90			$1 00	$799 64
Agronomy	188 48			125 60			15 79	329 87
American History	39 55			6 00				45 55
Anatomy and Physiology	244 80	5 24						250 04
Animal Husbandry	40 80			139 83	$1 00	$5,248 50	19 83	5,449 96
Architecture	122 70			26 84				149 54
Art	393 75			116 38				510 13
Astronomy	14 15			42 63			71 72	128 50
Bacteriology	152 34			62 00			25 60	239 94
Botany	682 14	21 95		200 30				904 39
Ceramic Engineering	139 65	24 31		105 60			3 00	272 56
Chemistry	1,752 76			107 42			134 29	1,994 47
Civil Engineering	124 00	11 95		47 71			35 62	219 28
Dairying	2,560 24			164 47	5 00		219 53	2,949 24
Domestic Science	129 63			33 58				163 51
Economics and Sociology				7 50				7 50
Electrical Engineering	2,197 44			76 08			3,054 71	5,328 23
Engineering Drawing	26 25	2 25		21 63			34 20	84 33
English		57 29						57 29
European History				9 00				9 00
Forestry	59 31						6 15	65 46
Geology	246 15	51 09	40 00	68 25				405 49

German				96				96
Greek	15 80	3 70		6 39				25 89
History and Philosophy of Education								
Horticulture	366 51	19 85		94 74			73 85	554 95
Industrial Arts	126 60			87 25			194 15	408 00
Latin	9 45	2 41		3 00				14 86
Law				4 20				4 20
Manual Training								
Mathematics		41 41						41 41
Mechanical Engineering	1,286 20	5 50		552 86			5,202 25	7,046 81
Mechanics				3 00				3 00
Amount Forward	11,691 74	246 95	40 00	2,139 12	6 00	5,248 50	9,091 69	28,464 00

LANDS, BUILDINGS AND EQUIPMENT

Schedule C-4—Continued

EQUIPMENT — Continued.

Department or Division.	Apparatus	Books	Collections	Furniture and Fixtures	Horses, Wagons and Harness	Live Stock	Machinery, Tools and Implements	Totals
Brought Forward	$11,691 74	$246 95	$40 00	$2,139 12	$6 00	$5,248 50	$9,091 69	$28,464 00
Metallurgy and Mineralogy	82 06		19 04	77 52				178 62
Meterology								
Military Science and Tactics				20 05			1 50	21 55
Mine Engineering	537 58			10 00				547 58
Pharmacy	330 38			42 00			35	372 83
Philosophy		16 00		37 00				53 00
Physical Education	13 37			147 14			1 00	161 51
Physics	1,203 06			44 40			50 45	1,297 91
Political Science								
Principles and Practice of Education								
Psychology								
Romance Languages		9 65						9 65
Rural Economics	29 10			16 32	2,131 85		36 03	2,213 30
School Administration				2 50			19 07	21 57
Veterinary Medicine	413 84	13 91		3,855 90	296 70		633 67	5,214 02
Zoology and Entomology	575 25	66 54		344 56			2 45	988 80
Total Department Equipment	$14,876 38	*$353 05	$59 04	$6,736 51	$2,434 55	$5,248 50	$9,836 21	$39,544 24

Summer Schools	$23 95	.....	.....	$11 27	.....	.....	.....	$35 22
Winter Course Lectures	.....	.....	.....	.....	.....	.....	.....	.....
Total Special Dept. Equipment	$23 95	.....	.....	$11 27	.....	.....	.....	$35 22

*Added to Library Equipment.

LANDS, BUILDINGS AND EQUIPMENT

Schedule C-4—Continued

EQUIPMENT — Cotiued.

Department or Division.	Apparatus	Books	Collections	Furniture and Fixtures	Horses, Wagons, and Harness.	Live Stock	Machinery, Tools and Implements	Tunnels, Conduits and Heating Lines	Total
Brought forward	$14,900 33	$353 05	$59 04	$6,747 78	$2,434 55	$5,248 50	$9,836 21	.....	$39,579 46
Library	.....	$18,702 67	.....	$ 952 56	.....	.....	.....	.....	$19,655 23
Special Funds—									
High School Visitors....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Agricultural Extension...	$498 52	$65 28	$11 25	$1,924 82	.....	.....	$603 33	.....	$3,103 20
Total Special Funds....	$498 52	*65 28	$11 25	$1,924 82	.....	.....	$603 33	.....	$3,103 20
Administration & General—									
Executive offices—									
President	.....	$4 50	.....	$85 10	.....	.....	.....	.....	$89 60
Secretary	.....	.....	.....	649 73	.....	.....	.....	.....	649 73
Registrar	.....	—.....	.....	244 56	.....	.....	.....	.....	244 56
Editor	.....	.....	.....	29 90	.....	.....	.....	.....	29 90
Entrance Board	.....	.....	.....	112 60	.....	.....	.....	.....	112 60
Store room	$806 76	.....	.....	156 40	.....	.....	.....	.....	963 16
General	.....	.....	.....	1,300 82	.....	.....	.....	.....	1,300 82
Total Administration & General	$806 76	*4 50	.....	$2,579 11	.....	.....	.....	.....	$3,390 37

Plant Equipment—									
Heat, Power and Light Plant				$77 85			$20,445 17		$20,523 02
Roads and Grounds				10 50			1,157 36		1,167 86
Total Plant & Equipment				$88 35			$21,602 53		$21,690 88
Dormitories and Dining Hall—									
Oxley Hall				$423 03					$423 03
Total expenditures for Equipment, *Schedule C-2*	$16,205 61	$19,125 50	$70 29	$12,715 65	$2,434 55	$5,248 50	$32,042 07		$87,842 17

Schedule C-4—Continued

LANDS, BUILDINGS AND EQUIPMENT

BUILDINGS.

Description.	Items	Totals
University Hall, Fire Escapes	$1,625 00	
Chemistry Building, Fire Escapes	367 00	
Veterinary Clinic Building	2,670 25	
Student Building	9,034 44	
Coal Handling Plant	7,280 63	
Library Building	39,516 43	
Total Expenditures for buildings for year, *Schedule C-2*		$60,493 75

DEPARTMENTAL SALARIES—INSTRUCTION

Schedule C-5

College or Department.		Professors.	Emeritus Professors.	Associate Professors.	Assistant Professors.	Instructors.	Assistants.	Fellows.	Student Assistants.	Lecturers.	Totals.
Agricultural Chemistry	No.	2		1			*1	1			
	Amt.	5,250 00					$120 00	$300 00			$7,270 00
Agronomy	No.	1			1		*2				
	Amt.	2,200 00			1,500 00		1,320 00				5,020 00
American History	No.	1		1							
	Amt.	3,000 00		1,600 00							4,600 00
Anatomy and Physiology	No.	1		1	1		1				
	Amt.	2,750 00		1,600 00	1,200 00		1,150 00				6,700 00
Animal Husbandry	No.	2			1		1				
	Amt.	4,850 00			1,500 00		300 00				6,650 00
Architecture	No.	1		1		1					
	Amt.	2,500 00		1,400 00		1,200 00					5,100 00
Art	No.			1	1	1					
	Amt.			1,800 00	1,300 00	1,000 00					4,100 00
Astronomy	No.	1		1							
	Amt.	2,750 00		1,300 00							4,050 00
Bacteriology	No.	*2			*1	1					
	Amt.	3,800 00			750 00	1,200 00					5,750 00
Botany	No.			1	2	2			1		
	Amt.			2,000 00	2,900 00	2,400 00			75 00		7,375 00
Ceramic Engineering	No.	1		1	1		2		1		
	Amt.	3,250 00		2,000 00	1,600 00		1,100 00		200 00		8,150 00
Chemistry	No.	3	1	2		2	6	9			
	Amt.	6,600 00	1,250 00	3,400 00		2,100 00	3,800 00	2,700 00			19,850 00
Civil Engineering	No.	3			2	2					
	Amt.	6,400 00			3,100 00	2,400 00					11,900 00
Dairying	No.	1				2					
	Amt.	2,500 00				2,400 00					4,900 00
Domestic Science	No.	1		2			2				
	Amt.	2,000 00		3,000 00			1,650 00				6,650 00
Economics and Sociology	No.	2			3	1					
	Amt.	4,750 00		1,600 00	4,700 00	1,000 00					12,050 00
Electrical Engineering	No.	†1		1	1		2				
	Amt.	1,300 00		1,700 00	1,300 00		1,500 00				5,800 00

* Part time, only.
† Absent on leave 1910-11.

DEPARTMENTAL SALARIES—INSTRUCTION—Concluded

Schedule C-5—Concluded

College or Department.		Professors.	Emeritus Professors.	Associate Professors.	Assistant Professors.	Instructors.	Assistants.	Fellows.	Student Assistants.	Lecturers.	Totals.
Engineering Drawing	No.	1			1	6			1		
	Amt.	2,400 00			1,500 00	6,300 00			300 00		10,500 00
English	No.	3		1	5			1			
	Amt.	7,450 00		1,800 00	5,800 00			300 00			15,350 00
European History	No.	1		*1	1						
	Amt.	2,500 00		1,500 00	1,500 00						5,500 00
Forestry	No.	1				1					
	Amt.	2,400 00				800 00					3,200 00
Geology	No.	2			*1	1					
	Amt.	4,950 00			1,170 00	1,300 00					7,420 00
German	No.	*1		1	3	1			1		
	Amt.	480 00		1,500 00	3,800 00	1,000 00			375 00		7,155 00
Greek and Classical Languages	No.	3									
	Amt.	6,750 00									6,750 00
History and Philosophy of Education	No.	1									
	Amt.	3,000 00									3,000 00
Horticulture	No.	1			2						
	Amt.	2,500 00			2,600 00						5,100 00
Industrial Arts	No.	1		1		3	2				
	Amt.	2,200 00		1,400 00		3,390 00	1,180 00				8,170 00
Latin	No.	1									
	Amt.	2,750 00									2,750 00
Law	No.	7			1						
	Amt.	16,000 00			1,500 00						18,100 00
Manual Training	No.				1						
	Amt.				1,500 00						1,500 00
Mathematics	No.	4		†2	4	1	1				
	Amt.	8,550 00		3,000 00	5,200 00	1,200 00	600 00				18,550 00
Mechanical Engineering	No.	2		1	2			1			
	Amt.	4,850 00		1,700 00	1,750 00			300 00			8,600 00
Mechanics	No.	1		1					1		
	Amt.	2,250 00		1,800 00					350 00		4,400 00
Metallurgy and Mineralogy	No.	2			1				1		
	Amt.	3,900 00			1,500 00				350 00		5,750 00
Meteorology	No.	1									
	Amt.	500 00									500 00

*Part time only.

Military Science and Tactics	No.	1					1				
	Amt.	450 00					300 00				750 00
Mine Engineering	No.	1		1			1		2		
	Amt.	1,500 00		1,500 00			750 00		450 00		4,200 00
Pharmacy	No.	2				1			1		
	Amt.	3,900 00				1,000 00			300 00		5,200 00
Philosophy	No.	2									
	Amt.	4,300 00									4,300 00
Physical Education	No.	1		1			3				
	Amt.	2,750 00		1,000 00			1,820 00				5,570 00
Physics	No.	2		1	3	1	3	1			
	Amt.	5,500 00		1,700 00	4,500 00	1,000 00	2,200 00	300 00			15,200 00
Political Science	No.	1		1							
	Amt.	2,350 00		1,500 00							3,850 00
Principles and Practice of Education	No.			1							
	Amt.			1,800 00							1,800 00
Psychology	No.	2									
	Amt.	4,300 00									4,300 00
Romance Languages	No.	†2		1	2	2					
	Amt.	4,000 00		1,600 00	2,500 00	2,200 00					10,300 00
Rural Economics	No.	1					1				
	Amt.	2,750 00					1,000 00				3,750 00
School Administration	No.	1									
	Amt.	2,750 00									2,750 00
Veterinary Medicine	No.	5			1		2				
	Amt.	10,050 00			1,400 00		1,500 00				15,950 00
Zoology and Entomology	No.	2		1	1			2	3		
	Amt.	4,550 00		1,600 00	1,400 00			600 00	550 00		8,700 00
	No.	79	1	28	44	29	34	15	12		
	Amt.	$180,080 00	$1,250 00	$44,900 00	$58,970 00	$31,890 00	$20,290 00	$4,500 00	$2,950 00		$344,830 00
Summer Schools	No.	22		7	16	9	6			10	
	Amt.	$7,069 16		$1,485 00	$3,050 00	$2,060 00	$1,070 00			$290 00	$15,024 16
Winter Course Lectures	No.	.....		.....	.....	.....	.....			9	
	Amt.	.....		.....	.....	.....	.....			390 00	390 00
	No.	22		7	16	9	6			19	
	Amt.	$7,069 16		$1,485 00	$3,050 00	$2,060 00	$1,070 00			$680 00	$15,414 16

		BALANCE (FOR THE END June 30,
CURRENT ASSETS		
Cash in banks and on hand for current expenses, *Schedule E*	$9,476 16	
Notes receivable and interest accrued thereon, *Schedule F-1*	.....	
Accounts receivable, *Schedule F-2*	450 00	
Rents receivable, *Schedule F-3*	.....	
Interest and dividends accrued on bonds, etc., *Schedule G*	.....	
Auditor of State—Special appropriations, *Schedule R*	412,949 46	
Store Room (Supplies per inventory)	17,948 09	
Other current assets	.....	
Total Current assets		$440,823 71
2. INVESTMENT ASSETS, AT END OF YEAR		
Securities—State Treasurer, (Irreducible debt of State) *Schedule H*	$933,318 93	
Real Estate, *Schedule I*	.....	
Cash in banks for investment, *Schedule E*	.....	
Total investment assets		$933,318 93
EDUCATIONAL PLANT—LANDS, BUILDINGS AND EQUIPMENT		
Balance at beginning of year, *Schedule J*	$4,060,708 22	
Additions during year, *Schedule K*	190,082 84	
Total educational plant		$4,250,791 06
Total assets		$5,624,933 70

SHEET *Schedule D*

OF THE YEAR.)

1911

1. CURRENT LIABILITIES

Notes payable and accrued interest thereon, *Schedule M*	.....	
Accounts payable, *Schedule N*	.....	
Interest accrued on bonds, mortgages, etc, *Schedule O*	.....	
Special State Appropriations, *Schedule R*	$412,949 46	
Other current liabilities	.....	
Total current liabilities		$412,949 46

2. ENDOWMENT FUNDS, ETC., AT END OF YEAR

Bonds, or mortgages against investments, *Schedule O*	.....	
Endowment Capital Accounts—		
Funds for general purposes, invested, *Schedule P*	$867,687 62	
Funds for designated purposes, invested, *Schedule Q*	65,631 31	
Total liabilities, endowment funds		$933,318 93

3. EDUCATIONAL PLANT, DEBT AND CAPITAL ACCOUNT

Bonds, or mortgages against plant, *Schedule O*	$55,000 00	
Investment or capital account	4,223,665 31	
Total educational plant		$4,278,665 31
Total liabilities		$5,624,933 70

Schedule E

CASH RECEIPTS AND DISBURSEMENTS
FOR ALL PURPOSES DURING THE YEAR.

Total Cash Receipts	$934,035 91
Total Cash Disbursements	934,253 48
Excess of Disbursements	$217 54
Cash balance at beginning of year	9,693 70
Cash balance at end of year	$9,476 16

CASH BALANCE

Cash on Deposit at Banks:
(Details as to cash for immediate use and for investments)
The Central National Bank, for general purposes $9,476 16

Cash at Offices:
(Details as to cash for immediate use and for investment)
Cash Balance, as above $9,476 16

Schedule F-2

ACCOUNTS RECEIVABLE

MISCELLANEOUS:
(Details)

Columbus Water Works—Meter Deposits (Omitted 1909-1910)	$450 00
Total, *Schedule D*	$450 00

Schedule H

SECURITIES: BONDS, STOCKS, AND REAL ESTATE MORTGAGES

	Balance at Beginning of Year.	Purchase or Other Additions during Year.	Total.	Sales during Year.	Balance at End of Year.	Interest Received.	Added to Investments during Year.
INVESTMENTS: Sec. 4105-15 R. S. Irreducible debt of State	$923,894 10	$9,424 83	$933,318 93		$933,318 93	$55,636 21	$175 44
Totals	$923,894 10	$9,424 83	$933,318 93		$933,318 93	$55,636 21	$175 44
Total *Schedule D*					$933,318 93		

Account.	Balance at Beginning of Year—Cost	Expended During Year—Cost	Gifts and Other Additions During Year—Value	Total	Sales and Other Dispositions During Year—Cost	Balance at End of Year—Cost
University Site, Campus, Grounds, Etc.:*						
331 11-100 acres, purchased 1871, cost $117,508.00 12 14-100 acres, purchased 1879, cost 607.00 93 59-100 acres, purchased 1906, cost 39,139.11 436 84-100 acres, cost $157,254 11						
Appraised value, 1900	$1,500,000 00	.....	*$40,000 00	$1,540,000 00	.....	$1,540,000 00
Grading, Planting, Roads, Walks, Etc.*	31,860 00	$11,140 00	.....	43,000 00	.....	43,000 00
Sewers	17,681 00	.....	.....	17,681 00	.....	17,681 00
Railway	31,558 79	61,105 96	.....	37,664 75	.....	37,664 75
Buildings:*						
University Hall	138,000 00	1,625 00	.....	139,625 00	.....	139,625 00
Dormitory, Small (Boys)	5,000 00	.....	.....	5,000 00	.....	5,000 00
Repair Shops	10,000 00	.....	.....	10,000 00	.....	10,000 00
Botanical Building	15,000 00	.....	.....	15,000 00	.....	15,000 00
Horticultural Building	7,500 00	.....	.....	7,500 00	.....	7,500 00
English Recitation Building	6,500 00	.....	.....	6,500 00	.....	6,500 00
Farm Mechanics Laboratory	5,000 00	.....	.....	5,000 00	.....	5,000 00

* Omitted in former report.

Schedule J—Continued

EDUCATIONAL PLANT: LANDS, BUILDINGS AND EQUIPMENT—*Continued*

Account.	Balance at Beginning of Year—Cost	Expended During Year—Cost	Gifts and Other Additions During Year—Value	Total	Sales and Other Dispositions During Year—Cost	Balance at End of Year—Cost
Buildings—Concluded.						
Hayes Hall	55,000 00			55,000 00		55,000 00
Residences (Six)	35,000 00			35,000 00	*	35,000 00
Farm Buildings (Five)	15,000 00			15,000 00	10,000 00	5,000 00
Orton Hall	100,000 00			100,000 00		100,000 00
Townshend Hall	110,000 00			110,000 00		110,000 00
Armory and Gymnasium	115,000 00			115,000 00		115,000 00
Biological Building	55,000 00			55,000 00		55,000 00
Emerson McMillin Observatory	16,000 00			16,000 00		16,000 00
Boiler House	30,350 00	7,280 63		37,630 63		37,630 63
Power House	24,290 02			24,290 02		24,290 02
Brown Hall	75,000 00			75,000 00		75,000 00
Page Hall (Law)	100,000 00			100,000 00		100,000 00
Veterinary Laboratory	35,000 00			35,000 00		35,000 00
Physics Building	80,000 00			80,000 00		80,000 00
Chemistry Building	110,000 00	367 00		110,367 00		110,367 00
Mines Building	85,000 00			85,000 00		85,000 00
Engineering Laboratory	75,000 00			75,000 00		75,000 00
Horse Building	25,000 00			25,000 00		25,000 00
Cattle Building	35,000 00			35,000 00		35,000 00
Judging Pavilion	20,000 00			20,000 00		20,000 00
Oxley Hall (Girls Dormitory)	63,159 35			63,159 35		63,159 35

Veterinary Clinic Building	85,109 81	2,670 25	.....	87,780 06	.....	87,780 06
Students Building (Club House)	68,559 06	9,034 44	.....	77,593 50	.....	77,593 50
Lake Laboratory	.....	.....	*2,500 00	*2,500 00	.....	2,500 00
Library Buildings	.....	39,516 43	.....	39,516 43	.....	39,516 43
Total Lands, Buildings, Etc	$3,180,568 03	$77,739 71	$42,500 00	$3,300,807 74	$10,000 00	$3,290,807 74
Equipment: Departments.						
Agricultural Chemistry	$6,677 83	$799 64	$9 40	$7,486 87	.....	$7,486 87

* Omitted in former report.
† Loss by fire.

EDUCATIONAL PLANT: LANDS, BUILDINGS AND EQUIPMENT — *Concluded*

Account.	Balance at Beginning of Year—Cost	Expended During Year—Cost	Gifts and Other Additions During Year—Value	Total	Sales and Other Dispositions During Year—Cost	Balance at End of Year—Cost
Brought forward	6,677 83	799 64	9 40	7,486 87	.....	7,486 87
Equipment Departments—Continued.						
Agronomy	3,526 65	329 87	300 00	4,156 52	$360 58	3,795 94
American History	452 63	45 55	.....	498 18	.....	498 18
Anatomy and Physiology	7,060 41	244 80	9 64	7,314 85	199 20	7,115 65
Animal Husbandry	20,313 15	5,449 96	.....	25,763 11	5,119 71	20,643 40
Architecture	7,088 90	149 54	3 35	7,236 79	691 59	6,545 20
Art	762 54	510 13	12 50	1,285 17	.....	1,285 17
Astronomy	17,222 28	128 50	1 50	17,352 28	.....	17,352 28
Bacteriology	4,956 12	239 94	.....	5,196 06	145 87	5,050 19
Botany	5,483 59	882 44	3,625 90	9,991 93	9 75	9,982 18
Ceramic Engineering	12,883 62	248 25	352 20	13,484 07	304 71	13,179 36
Chemistry	10,035 04	1,994 47	15 46	12,044 97	76 65	11,968 32
Civil Engineering	16,397 93	207 33	4 82	16,610 08	1,073 33	15,536 75
Dairying	7,859 71	2,949 24	978 91	11,787 86	917 56	10,870 30
Domestic Science	2,623 44	163 51	25 36	2,812 31	7 01	2,805 30
Economics and Sociology	515 22	7 50	.....	522 72	.....	522 72
Electrical Engineering	22,927 89	5,328 23	498 12	28,754 24	200 00	28,554 24
Engineering Drawing	5,986 26	82 08	509 23	6,577 57	53 22	6,524 35
English	547 58	.....	60 00	607 58	20 50	587 08
European History	580 23	9 00	.....	589 23	.....	589 23
Forestry	876 02	65 46	129 30	1,070 78	19 73	1,051 05
Geology	24,554 54	354 40	207 49	25,206 43	125 30	25,081 23
German	361 90	96	.....	362 86	.....	362 86
Greek	372 34	31 64	50	404 48	.....	404 48

History and Philosophy of Education	139 00			139 00		139 00
Horticulture	1,420 96	535 10	62 70	2,018 76	416 65	1,602 11
Industrial Arts	24,780 90	408 00	36 05	25,224 95	208 63	25,016 32
Latin	433 28	3 00	3 00	439 28		439 28
Law	4,189 05	4 20	671 70	4,864 95		4,864 95
Manual Training						
Mathematics	250 96			250 96		250 96
Mechanical Engineering	47,186 51	7,041 31	3,569 41	57,797 23	375 53	57,421 70
Mechanics	672 48	3 00	46 00	721 48	19 89	701 59
Metallurgy and Mineralogy	10,166 93	178 62	232 68	10,578 23	157 68	10,420 55
Military Science and Tactics	1,714 48	21 55	249 77	1,985 80	70 25	1,915 55
Mine Engineering	8,159 09	547 58	266 35	8,973 02	42 88	8,930 14
Pharmacy	2,496 85	372 73	35 10	2,904 68		2,904 68
Philosophy	70 00	37 00		107 00		107 00
Physical Education	6,252 14	161 51	2 10	6,415 75	185 05	6,230 70
Physics	33,114 62	1,297 91	467 15	34,879 68	813 08	34,066 60
Political Science	130 63			130 63		130 63
Psychology	1,685 56			1,685 56		1,685 56
Romance Languages	300 60			300 60		300 60
Rural Economics	4,837 12	2,213 30	5 75	7,056 17	1,598 52	5,457 65
School Administration		21 57		21 57	19 07	2 50
Veterinary Medicine	8,347 20	5,200 11	142 37	13,689 68	971 24	12,718 44
Zoology and Entomology	19,518 18	922 26	1,190 71	21,628 15	39 74	21,588 41
Library	258,425 94	20,078 06	1,797 18	280,301 13	727 75	279,573 38
Summer School	211 87	35 22	28 67	275 76		275 76
Archaeology	6,498 00			6,498 00		6,498 00
Agricultural Extension	1,562 97	3,037 92	391 35	4,992 24	96 28	4,895 96
General Offices, Recitation Rooms and Laboratories	7,964 22	2,422 71	11,120 45	21,507 38	379 28	21,128 10
Store Room	40,613 78	963 16	678 10	42,255 04	‡16,275 26	25,979 78
Heat, Power and Light Plant	198,601 50	20,523 02		219,124 52	3,569 76	215,554 76
Roads and Grounds	872 37	1,167 86	1 75	2,041 98	232 91	1,809 07
Dormitories—Oxley Hall	9,232 50	423 03		9,655 53	306 95	9,348 58
Small Dormitory (Men)	232 68			232 68		232 68
Total Equipment	$880,140 19	$87,842 17	$27,831 97	$995,814 33	$35,831 01	$959,983 32
Grand Total, Lands, Buildings and Equipment, *Schedule D*	$4,060,708 22	$165,581 88	$70,331 97	$4,296,622 07	$45,831 01	$4,250,791 06

‡ Correcting Error 1909-10. See folio 22, Sch. D, Store Room Inventory.

Schedule K

ADDITIONS TO LANDS, BUILDINGS AND EQUIPMENT

	Amount
ADDITION TO LANDS:	
(Details, Schedule J)	
Sewers	
Railway to Grounds	$6,105 96
Grading, Planting, Roads, Walks, etc.	11,140 00
ADDITIONS TO BUILDINGS:	
(Details, Schedule J)	92,993 75
EQUIPMENT:	
(Details, Schedule J)	79,843 13
Total during year, *Schedule D*	$190,082 84

Schedule O

BONDS, CERTIFICATES OF INDEBTEDNESS AND MORTGAGES

AGAINST EDUCATIONAL PLANT.

	Balance at Beginning of Year.	Issued during Year.	Total.	Redeemed during Year.	Balance at End of Year.
BONDS:					
Issue of 6-1-02, due 12-1-10— Nos. 131 to 140, $1,000.00 each 4½%....	$10,000 00		$10,000 00	$10,000 00	
Issue of 12-1-02, due 12-1-10— Nos. 141 to 155, $1,000.00 each 4½%....	15,000 00		15,000 00	15,000 00	
Issue of 12-1-02, due 12-1-10— Nos. 156 to 170, $1,000.00 each 4½%....	15,000 00		15,000 00		15,000 00
Issue of 6-1-03, due 12-1-11— Nos. 171 to 180, $1,000.00 each 4½%....	10,000 00		10,000 00		10,000 00
Issue of 12-1-03, due 12-1-12— Nos. 181 to 210, $1,000.00 each 4½%....	30,000 00		30,000 00		30,000 00
CERTIFICATES OF INDEBTEDNESS.. *(Details)*					
MORTGAGES ..... *(Details)*					
Total.....	$80,000 00		$80,000 00	$25,000 00	$55,000 00
Total Bonded Debt at end of year, *Schedule D.*					$55,000 00

Schedule P

ENDOWMENT FUNDS FOR GENERAL PURPOSES

Name and Description of Funds.	Total Principal and Additions Received to beginning of Year.	Received during Year.		Total.	Income Expended during Year.	Total Principal and Additions at End of Year.
		Gifts and Other Additions.	Income (from State)			
Original Endowment ..... Land Grant. Act of Congress July 2, 1862. Total amount derived from sale of 629,920 acres of land, scrip, $312,450.80; Accumulation added (state) $181,725.70.	$524,176 50		$31,450 59	$555,627 09	$31,450 59	524,176 50
Virginia Military Lands.... Ceded to State by an Act of Congress, Feb. 18, 1871. Act of General Assembly March 26, 1872 accepted said grant and conveyed the lands to the Trustees of the Ohio Agricultural and Mechanical College for the benefit of that institution. Subsequent acts, April 3, 1873, and March 14, 1889.	125,649 89	8,624 89	7,717 62	141,992 40	7,717 62	134,274 78
Henry Folsom Page..... A bequest left by him Oct. 27, 1891, and ratified by his wife and daughter, the entire estate to be disposed of and proceeds paid to State Treasurer in accordance with Sec. 4105-15 R. S., the disposition of income to be left entirely to the discretion of the Board of Trustees.	208,863 84	372 50	12,542 76	221,779 10	12,542 76	209,236 34
Totals	$858,690 32	$8,997 39	$51,710 97	$919,398 59	$51,710 97	$867,687 62
Funds expended on teaching etc., such as charged in expense account					$51,710 97	
Total endowment fund for general purposes at end of year (irreducible debt of state) *Schedule D*.....						$867,687 62

Schedule Q

ENDOWMENT FUNDS FOR DESIGNATED PURPOSES

Name and Description of Funds.	Total Principal and Additions Received to Beginning of Year.	Received during Year.		Total.	Income Expended during Year.	Total Principal and Additions at End of Year.
		Gifts and Other Additions.	Income (from State)			
William J. Bryan Prize Fund. This fund of $250.00 was given by Mr. Bryan, July 20, 1898, and invested in accordance with Sec. 4105-15 R. S., the income to be used as a prize for the best essay on "The Principles Which Underlie Our Form of Government." In any year when no prize is awarded, the income shall be added to the Principal. Sec. 4105-47 R. S.	$477 34		$29 06	$506 40		$506 40
Stillman W. Robinson Fellowship Fund ..... Established January 28, 1903, by a gift of $5,000.00 from Prof. Robinson, and invested in accordance with Sec. 4105-15 R. S. An additional gift of $1,850.00 was received July 20, 1909, and likewise invested, the income to be used in maintaining a Fellowship in the Engineering College.	8,362 08		501 72	8,863 80	500 00	8,363 80
C. Newton Brown Scholarship Fund ..... This fund was created May 18, 1903, by the payment of $1,000.00 received from former students of Prof. Brown and invested in accordance with Sec. 4105-15 R. S. An additional amount of $92.09 was received December 1, 1904, and likewise invested. The income to be invested in accordance with Sec. 4105-47 R. S. until the principal is sufficient to maintain a scholarship in the department of Civil Engineering.	1,651 21		100 54	1,751 75		1,751 75
J. McLain Smith Scholarship Fund ..... A bequest left by him September 27, 1905, the entire estate to be sold and proceeds paid to State Treasurer in accordance with Sec. 4105-15 R. S. The income to be used by the Board of Trustees in assisting worthy young men and young women in attaining an education.	25,163 51		1,509 80	26,673 31	1,509 80	25,163 51

Schedule Q—Concluded

ENDOWMENT FUNDS FOR DESIGNATED PURPOSES—Concluded

Name and Description of Funds.	Total Principal and Additions Received to Beginning of Year.	Received during Year.		Total.	Income Expended during Year.	Total Principal and Additions at End of Year.
		Gifts and Other Additions.	Income (from State)			
Joseph H. Outhwaite Library Fund..... September 28, 1908, a gift of $2,000.00 was received from Mrs. Outhwaite in memory of the late Dean Outhwaite and invested in accordance with Sec. 4105-15 R. S., the income to be used for the purchase of books relating to the Civil War.	2,000 00		120 00	2,120 00	120 00	2,000 00
Derby Scholarship Fund.... This fund was established November 23, 1908, by a gift of $500.00 from Prof. Samuel C. Derby and invested in accordance with Sec. 4105-15 R. S., the income to be added to the principal in accordance with Sec. 4105-47 R. S., until the annual income shall be at least $300.00. The said income to be used in maintaining the Derby Scholarship.	549 73	200 00	42 56	792 29	.....	792 29
Frederick C. Clark, Library Fund ..... Established November 23, 1908, by a gift of $2,000.00 from Mrs. Clark in memory of the late Prof. F. C. Clark and invested in accordance with Sec. 4105-15 R. S., the income to be used for the purchase of books in the field of Economics.	2,000 00		120 00	2,120 00	120 00	2,000 00
Robert P. Scott Student Aid Fund ..... Established by a gift of $25,000.00 from Robert P. Scott, January 2, 1909, and invested in accordance with Sec. 4105-15 R. S., the income to be used in assisting worthy and needy students.	$25,000 00		$1,500 00	$26,500 00	$1,500 00	$25,000 00
Class of 1886 Sword Fund Gift January 1, 1911.....		52 00	1 56	53 56		53 56
Totals	$65,203 87	$252 00	$3,925 24	$69,381 11	$3,749 80	$65,631 31
Total funds for designated purposes at end of year (irreducible of debt State), *Schedule D*.....						$65,631 31

Schedule R

STATE AID—SPECIAL APPROPRIATIONS

Title or Description.	Balance at beginning of Year.	Appropriations during Year.	Interest.	Total.	Requisitions during Year.	Balance at End of Year.
Equipment Mines Building....	$1,781 80			$1,781 80	$1,781 80	
Equipment Chemistry Building	192 55			192 55	192 55	
Veterinary Clinic Building and Equipment	16,525 04	$5,000 00		21,525 04	14,061 77	$7,463 27
Student Bldg. and Equipment.	7,006 28			7,006 28	7,006 28	
Equipment Engineering Laboratory	17,466 74			17,466 74	16,859 02	607 72
Equipment Power House.....	26,098 27	8,000 00		34,098 27	24,346 57	9,751 70
Repairs and Betterments, Bldg. and Grounds	30,000 00	25,000 00		55,000 00	30,000 00	25,000 00
Scientific Apparatus, Laboratory Equipments	11,591 32	5,000 00		16,591 32	9,161 13	7,430 19
Railway to Grounds.....	7,411 88			7,411,88	4,764 94	2,646 94
Library—Books	30,597 16	20,000 00		50,597 16	21,411 30	29,185 86
Live Stock and Maintenance..	8,750 00	5,000 00		13,750 00	8,398 00	5,352 00
Agricultural Extension and Mechanical Arts	51,294 26	40,000 00		91,294 26	51,294 26	40,000 00
Fire Escapes and Remodeling University Hall	25,000 00	3,000 00		28,000 00	24,764 57	3,235 43
Bonds and Interest.....	28,600 00	27,475 00		56,075 00	28,600 00	27,475 00
Library Building	125,000 00	100,000 00		225,000 00	38,598 65	186,401 35
Extension Tunnel to Library Building		6,300 00		6,300 00		6,300 00
Coal Handling Plant.....		4,100 00		4,100 00		4,100 00
Equipment Agronomy		2,000 00		2,000 00		2,000 00
Equipment Mech. Engr. Lab..		5,000 00		5,000 00		5,000 00
Equipment University Farm..		2,000 00		2,000 00		2,000 00
Equipment Dairy Department.		2,000 00		2,000 00		2,000 00
Summer Session		10,000 00		10,000 00		10,000 00
Addl. Farm Lands & Imp.....		10,000 00		10,000 00		10,000 00
Storage Building		10,000 00		10,000 00		10,000 00
Sidewalks		2,500 00		2,500 00		2,500 00
Farm Machinery		2,000 00		2,000 00		2,000 00
Poultry Bldg. and Equipment.		7,500 00		7,500 00		7,500 00
Equipment Elec. Engr. Lab..		5,000 00		5,000 00		5,000 00
Totals	$387,315 30	$306,875 00		$694,190 30	$281,240 84	$412,949 46
Totals—*Schedule D*.....						$412,949 46

Schedule S

OXLEY HALL

RECEIPTS AND DISBURSEMENTS—SUPPLEMENTAL.

RECEIPTS—		
Balance July 1, 1910		$6,023 94
For Rooms	$3,540 75	
For Board	9,865 34	
For Guests	276 25	
For Meals to Rooms	3 45	
For Laundry	507 14	
Miscellaneous	163 82	
		14,456 75
Total receipts and balance		$20,480 69
DISBURSEMENTS—		
Salary, Superintendent	$1,200 00	
Employees and Extra Labor	3,679 60	
Stationery and Office Supplies	22 23	
Incidentals	202 76	
Food Supplies	6,034 55	
Material and General Supplies	916 98	
Freight and Cartage	.....	
Repairs—Furniture and Fixtures	45 00	
Furniture and Fixtures	423 03	
Water, Gas and Electricity (General Accounts)	951 52	
Total Expenditures		13,475 67
Balance June 30, 1911		$7,005 02

COLUMBUS, O., December 9, 1911.

HON. E. M. FULLINGTON, *Chief Inspector and Supervisor of Public Offices.*

SIR:—Complying with your instructions I have audited the accounts of the Secretary of the Ohio State University for the year ended June 30, 1911, and hereby certify: That the income from all sources has been duly accounted for and promptly deposited with the Treasurer; that all payments have been properly vouched; that the cash in bank has been verified and that the balance sheet and accompanying schedules submitted herewith contain a true statement of the financial condition of the University at the close of business June 30, 1911, and is in accordance with the books.

Respectfully,

WILBUR E. BAKER, *State Examiner.*

GIFTS

The University acknowledges formally and with appreciation the following gifts received during the year ending June 30, 1911.

Agronomy:

1 Set Indian Agricultural Tools, Samuel Higginbottom.....	

Art:

5 Photogravures, J. H. Jensen.....	$10 00

Chemistry:

50 Samples showing manufacture of glass, Bausch & Lomb.....	10 00

Electrical Engineering:

1 Case sample tungsten lamps, Shelby Electric Co.....	35 00
1 Mazda Arc Lamp, Shelby Electric Co.....	42 50
1 Type S. S. 101A Auto. Motor Starter, Elec. Controller Supply Co.	20 00
1 E-500 Reflector, Holophane Co.....	5 00
1 Set sample armature coils, E. E. Eby.....	1 00
1 Exhibit of Dry Cells, National Carbon Co.....	8 00
6 Sample "Alba" Reflectors, Macbeth Evans Co.....	5 00
1 7-unit suspension type insulator, Ohio Brass Co.....	4 00
Porcelain samples, General Electric Co.....	1 00
1 Hewlett suspension insulator unit, General Electric Co.....	1 00
1 Third-rail Insulator, Scioto Valley Traction Co.....	50
1 White-glazed porcelain insulating tube, General Electric Co.....	1 00
1 Brown-glazed porcelain insulating tube, General Electric Co.....	1 00
Sample of Alberene Stone, Alberene Stone Co.....	25
Sample "Sternoid," General Bakelite Co.....	05
Samples of manufactured soapstone, D. M. Steward Mfg. Co....	1 00
1 Sample of "Bakelite," General Bakelite Co.....	10
1 Sample "Stern-Bakelite," General Bakelite Co.....	20
1 Sample "Shellac," General Bakelite Co.....	50

Engineering Drawing:

1 Cutting Roll, Jaeger Machine Co.....	20 00
1 Heavy Sewing Machine, Jaeger Machine Co.....	10 00
1 Trimming Roll, Jaeger Machine Co.....	20 00
31 Wooden Patterns, Jaeger Machine Co.....	50 00
11 Iron Models, Jaeger Machine Co.....	2 00
27 Patterns and 11 core boxes, Jeffrey Mfg. Co.....	75 00
2 Gear Spurs, Jeffrey Mfg. Co.....	5 00
1 Pinion, Jeffrey Mfg. Co.....	50
2 Bevel Gears, Jeffrey Mfg. Co.....	5 00
2 Helical Conveyors, Jeffrey Mfg. Co.....	5 00
1 Flexible Tooth Shave, Jeffrey Mfg. Co.....	5 00

Forestry:

5 Rules, Lufkin Rule Co.....	10 00
Lot of Forestry Tools, Warren Axe & Tool Co.....	25 55
Set of Wire Specimens, The Roeblings Sons Wire Cable Co.....	
Redwood Board and specimens of molding, Redwood Lumber Mfg. Co.	
4 Boxes Coniferous Trees, U. S. Forest Service Nursery.....	

Horticulture:

1	Goulds Pomona Spray Pump, Goulds Mfg. Co.	11 75
1	Greenhouse Model, Lord & Burnham	10 00
44	Greenhouse blue-print drawings, Lord & Burnham	10 00

Mechanical Engineering:

	Collection of cold headed iron machine screws with rolled threads, Progressive Mfg. Co.	25
	Collection of cold headed brass screws, Progressive Mfg. Co.	25
1	1″ Mall. Iron Union, E. M. Dart Mfg. Co.	20
1	Flange Union, ¾″, E. M. Dart Mfg. Co.	35
1	¾″ Stop and Waste Cock, E. M. Dart Mfg. Co.	60
1	10 HP Hornsby-Akroyd Oil Engine, De La Vergne Machine Co.	600 00
1	25 HP Bessemer Gas Engine, Bessemer Gas Engine Co.	800 00
3	Framed Pictures of Engines, Wm. Tod Co.	7 50
1	Flue Blower, Marion Machine Fdy. Sup. Co.	37 50
	Collection aluminum ores and metals, U. S. Aluminum Co.	3 00
	Sample of metallic phosphoro, New Era Mfg. Co.	10
	Sample White Phosphor Bronze, New Era Mfg. Co.	10
7	Samples of Babbitt Metal, New Era Mfg. Co.	50
3	Samples of maximum silent chain, Link Belt Co.	2 00
1	Double Expansion Bolt, The Steward & Romaine Mfg. Co.	10
	Ball Bearings, Auburn Ball Bearing Co.	1 00
	Ball Bearings, Auburn Ball Bearing Co.	1 00
	Ball Bearings, Auburn Ball Bearing Co.	1 00
	Samples of Sherardized parts, Globe Machine & Stamping Co.	10
1	Single Expansion Bolt, Steward & Romaine Mfg. Co.	10
1	Double jaw single expansion Bolt, Steward & Romaine Mfg. Co.	10
1	Steel Toggle Bolt, Steward & Romaine Mfg. Co.	10
1	Iron Toggle Bolt, Steward & Romaine Mfg. Co.	10
1	Iron Toggle Bolt, Steward & Romaine Mfg. Co.	10
1	Tank Lug, Imperial Bit & Snap Co.	15
8	Steel Springs, Miller & Van Winkle	1 00
	Ball Bearings, Auburn Ball Bearing Co.	1 00
2	Samples of self-lubricating metallic engine Packing Gages, New Era Mfg. Co.	25
1	Sectional Model of Scotch Marine Boiler, Continental Iron Works.	10 00
5	Samples Test Bars of Vanadium Steels, Vanadium Sales Co.	1 00
1	Distorted drop forged Vanadium steel crank-shaft, Vanadium Sales Co.	2 00
1	Collection of distorted Vanadium Steel Castings, Vanadium Sales Co.	2 00
1	16″ x 8″ Brake Pulley, internally flanged, Springfield Gas Engine Company	10 00
4	Samples of Toncan Metal, Stark Rolling Mill Co.	10
1	1″ "Everlasting" Gate Valve, Scioto Valley Supply Co.	2 00
1	Sample Board 30″ x 34″ — Series of operations on jack frame, desk-stand clamp-nut, combined jack and signal-ball, desk-stand switch-hook, Western Electric Co.	10 00
1	Sample Board — Series of operations on transmitter-face plate and on hand generator bearing bracket, Western Electric Co.	10 00
1	24″ x 5″ Pulley, Dodge Mfg. Co.	7 00
4	Samples of "Albeco Laminated" Belting, American Laminated Belting Co.	50
	Samples of cherardized metal, U. S. Sherardizing Co.	2 00

Mechanical Engineering — Concluded.

1 Piece of brass showing operations in manfg. of No. 13 lamp socket, Western Electric Co. 75
4 Samples of Babbitt Metal, A. W. Cadman Mfg. Co. 50
5 Samples Safety Set Screws and 3 wrenches, Allen Mfg. Co. 25
12 Samples of Ball Bearings, Pressed Steel Mfg. Co. 5 00
1 2-lb. Can of "Nugget" Packing, Nugget Packing Co. 50
4 6" Copper Gaskets, Cincinnati Gasket & Packing Co. 1 00
1 "A" Sectionalized Squires Improved Steam Trap, The C. E. Squires Co. 8 00

Mine Engineering:

4 Mine Car Axles with wheels attached, Watt Mining Car Wheel Company 80 00

Pharmacy:

1 Framed Picture, Pharmacy Association 2 50

Physics:

1 Field Rheostat, General Electric Co. 3 00

Zoology and Entomology:

Collection of Butterflies and Moths, Mrs. Catherine Tallant 1,000 00
Collection of Lac. Insect Products, J. E. Hyde .....

LOANS

During the past year the following equipment has been loaned to the University by the parties indicated. These loans are exceedingly helpful in demonstrations to students, and the University is grateful for them.

Agronomy:

1 Walking Plow, Gale Mfg. Co. $14 00
1 Gang Plow, Oliver Chilled Plow Co. ....
1 Superior Grain Drill, American Seeding Machine Co. ....
1 Hoosier Grain Drill, American Seeding Machine Co. ....
1 Buckeye Grain Drill, American Seeding Machine Co. ....
1 McCormick Grain Binder, International Harvester Co. ....
1 Deering Binder, International Harvester Co. ....
1 Grain Binder, Walter A. Wood Co. ....
1 Corn Planter, Deere & Mouser Co. ....
1 2-HP Gasoline Engine, McVicker Gasoline Engine Co. ....
1 5-HP Gasoline Engine, Alamo Mfg. Co. ....
1 Disc Harrow, Clark Cutaway Harrow Co. ....

Dairy:

1 Emery Thompson Ice Cream Freezer with brine tank and circulating pump, Ohio Creamery & Dairy Sup. Co. 350 00
1 Combination Eclipse Moisture Evaporator, Ohio Creamery & Dairy Sup. Co. 10 00

Electrical Engineering:

1 5-sta. 2-wire set, 4-desk telephone set and 1 wall set, Automatic Electric Co. 150 00

Horticulture:
1 No. 16 H. & D. Seeder, Ames Plow Co..... 7 00

Mechanical Engineering:
1 Copes Pump Governor, 1", Northern Equipment Co..... .....
1 Copes Boiler Feed Regulator, 1½", Northern Equipment Co..... .....

FACULTY

The instructional force of the University for the year ending June 30, 1911, was classified as follows: President, 1; Emeritus President and Professor, 1; Emeritus Professors, 5; Professors, 79; Associate Professors, 27; Assistant Professors, 44; Instructors, 30; Assistants, 34; Fellows, 14; Student Assistants, 13; High School Visitors, 2; Curators, 2. Total 252.

The Library Staff: Librarian, 1; Assistants, 11.

The title and compensation of members of the faculty, and of other officers and employees of the University are given in Statement No. 3.

In compliance with Section 7 of the Organic Act, passed by the legislature of Ohio, May 1, 1878 (R. S. Sec. 4105-42), which requires the list of "the number of professors, officers, teachers and other employees, and the compensation of each, to be annually reported," the following report is submitted:

Name of Employees	Position.	Salary.
William Oxley Thompson.	President	$7,000 00
Alfred Vivian	Professor of Agricultural Chemistry	3,000 00
Henry A. Weber	Professor of Agricultural Chemistry	2,250 00
John F. Lyman	Associate Professor of Agricultural Chemistry	1,600 00
Byron M. Hendrix	Assistant in Agricultural Chemistry (part time)	120 00
Francis R. Freeman	Fellow in Agricultural Chemistry	300 00
Arthur G. McCall	Professor of Agronomy	2,200 00
H. C. Ramsower	Assistant Professor of Agronomy	1,500 00
Clinton J. Grant	Assistant in Agronomy (part time)	360 00
George Livingston	Assistant in Agronomy (part time)	360 00
H. J. Bower	Assistant in Agronomy	600 00
George W. Knight	Professor of American History	3,000 00
Homer C. Hockett	Associate Professor of American History	1,600 00
A. M. Bleile	Professor of Anatomy and Physiology	2,750 00
R. J. Seymour	Associate Professor of Anatomy and Physiology	1,600 00
E. P. Durrant	Associate Professor of Anatomy and Physiology	1,200 00
Adolph Feiel	Assistant in Anatomy and Physiology	400 00
H. E. Boucher	Assistant in Anatomy and Physiology	250 00
Don F. Russell	Assistant in Anatomy and Physiology (part time)	25 00
Jonathan Forman	Assistant in Anatomy and Physiology (part time)	225 00
J. G. Wittenmyer	Assistant in Anatomy and Physiology	250 00

Name of Employees	Position.	Salary.
Charles S. Plumb	Professor of Animal Husbandry	2,750 00
F. R. Marshall	Professor of Animal Husbandry	2,100 00
H. W. Vaughan	Assistant Professor of Animal Husbandry	1,500 00
D. M. Fyffe	Superintendent of Live Stock	1,200 00
W. H. Palmer	Assistant in Animal Husbandry (Winter Course)	300 00
W. C. Mills	Curator—Archaeology	600 00
Gertrude Wright	Assistant in Archaeology	120 00
Joseph N. Bradford	Professor of Architecture	2,500 00
C. St. J. Chubb	Associate Professor of Architecture	1,400 00
F. H. Haskett	Instructor in Architecture	1,200 00
Mary R. Laver	Professor of Art	1,300 00
Julia Titsworth	Assistant Professor of Art	1,300 00
Margaret S. Finney	Instructor in Art	1,000 00
Henry C. Lord	Professor of Astronomy	2,750 00
C. S. Manson, Jr.	Associate Professor of Astronomy	1,300 00
Charles B. Morrey	Professor of Bacteriology	2,000 00
E. F. McCampbell	Professor of Bacteriology	1,800 00
William A. Starin	Instructor in Bacteriology	1,200 00
Ernest Scott	Assistant Professor of Pathology (part time)	750 00
J. H. Schaffner	Associate Professor of Botany	2,000 00
R. F. Griggs	Assistant Professor of Botany	1,200 00
A. Dachnowski	Assistant Professor of Botany	1,700 00
Freda Detmers	Instructor in Botany	1,200 00
W. G. Stover	Substitute Instructor in Botany	1,200 00
B. W. Wells	Student Assistant in Botany	75 00
M. E. Corotis	Florist (part time)	400 00
Forrest B. H. Brown	Florist (part time)	200 00
S. A. Norton	Emeritus Professor of Chemistry	1,250 00
William McPherson	Professor of Chemistry	2,500 00
W. E. Henderson	Professor of Inorganic and Physical Chemistry	2,100 00
G. W. Foulk	Professor of Analytical Chemistry	2,000 00
W. L. Evans	Associate Professor of Chemistry	1,800 00
James R. Withrow	Associate Professor of Chemistry	1,600 00
David R. Kellogg	Instructor in Chemistry	900 00
John A. Wilkinson	Instructor in Chemistry	1,200 00
C. E. Boord	Assistant in Chemistry	700 00
Lou Helen Morgan	Assistant in Chemistry	700 00
George W. Stratton	Assistant in Chemistry	700 00
E. J. Witzemann	Assistant in Chemistry	700 00
Ralph E. Hall	Assistant in Chemistry	700 00
Fletcher Ayres	Fellow in Chemistry	300 00
A. L. Burns	Fellow in Chemistry	300 00
A. Guillaudeu	Fellow in Chemistry	300 00
Elmer Hockett	Fellow in Chemistry	300 00
J. E. Fogelsong	Fellow in Chemistry	300 00
G. E. VanSickle	Fellow in Chemistry	300 00
A. W. Davison	Fellow in Chemistry	300 00
Glenn G. Cole	Fellow in Chemistry	300 00
William B. Leighninger	Fellow in Chemistry	300 00
Margaret Maclean	Assistant in Chemistry (First semester)	300 00
C. E. Sherman	Professor of Civil Engineering	2,400 00
F. H. Eno	Professor of Municipal Engineering	2,000 00
C. T. Morris	Professor of Structural Engineering	2,000 00
R. K. Schlafly	Assistant Professor of Civil Engineering	1,700 00
J. R. Chamberlin	Assistant Professor of Civil Engineering	1,400 00
A. H. Hinkle	Instructor in Civil Engineering	1,200 00

Name of Employees	Position.	Salary.
C. L. Armsby	Instructor in Civil Engineering (part time)	600 00
H. W. Sterzbach	Instructor in Civil Engineering (part time)	600 00
Edward Orton, Jr.	Professor of Ceramic Engineering	3,250 00
R. C. Purdy	Associate Professor of Ceramic Engineering	2,000 00
Homer F. Staley	Assistant Professor of Ceramic Engineering	1,600 00
Ira Sproat	National Brick Manufacturers Association Scholarship	200 00
Amos P. Potts	Assistant in Ceramic Engineering	600 00
Carl D. Harrop	Instructor in Ceramic Engineering (half time)	500 00
Oscar Erf	Professor of Dairying	2,500 00
O. C. Cunningham	Instructor in Dairying	1,200 00
W. L. Clevenger	Instructor in Butter-making	1,200 00
Ruth A. Wardall	Professor of Domestic Science	2,000 00
Edna N. White	Associate Professor of Domestic Science	1,500 00
Anna K. Flint	Associate Professor of Domestic Art	1,500 00
Anna F. Blohm	Assistant in Domestic Art	900 00
Ida M. Shilling	Assistant in Domestic Science	750 00
J. E. Hagerty	Professor of Economics and Sociology	2,750 00
M. B. Hammond	Professor of Economics and Sociology	2,000 00
F. A. McKenzie	Associate Professor of Economics and Sociology	1,600 00
O. C. Lockhart	Assistant Professor of Economics and Sociology	1,600 00
W. F. Gephart	Assistant Professor of Economics and Sociology	1,600 00
C. C. Huntington	Assistant Professor of Economics and Sociology	1,500 00
Beatrice Sheets	Instructor in Economics and Sociology	1,000 00
F. C. Caldwell	Professor of Electrical Engineering	1,300 00
J. H. Hunt	Associate Professor of Electrical Engineering	1,700 00
L. W. McOmber	Assistant Professor of Electrical Engineering	1,300 00
J. E. Shepardson	Assistant in Electrical Engineering	800 00
A. H. Heitman	Assistant in Electrical Engineering	700 00
W. R. Alexander	Machinist	900 00
T. E. French	Professor of Engineering Drawing	2,400 00
Robert Meiklejohn	Assistant Professor of Engineering Drawing	1,500 00
A. C. Harper	Instructor in Engineering Drawing	1,200 00
O. E. Williams	Instructor in Engineering Drawing	1,200 00
Cree Sheets	Instructor in Engineering Drawing	1,100 00
F. W. Ives	Instructor in Engineering Drawing	1,000 00
William D. Turnbull	Instructor in Engineering Drawing	1,000 00
W. J. Norris	Instructor in Engineering Drawing	800 00
H. J. A. Gerard	Student Assistant in Engineering Drawing	300 00
J. V. Denney	Professor of English	3,250 00
J. R. Taylor	Professor of English	2,200 00
G. H. McKnight	Professor of English	2,000 00
W. L. Graves	Associate Professor of English	1,800 00
C. S. Duncan	Assistant Professor of English	1,600 00
C. E. Blanchard	Assistant Professor of English	900 00
L. A Cooper	Assistant Professor of English	1,100 00
A. M. Burnham	Assistant Professor of English (part time)	550 00

Name of Employees	Position.	Salary.
E. L. Beck	Assistant Professor of English (part time)	550 00
H. F. Harrington	Assistant Professor of English	1,100 00
Jeannette Eaton	Fellow in English	300 00
W. H. Siebert	Professor of European History	2,500 00
E. H. McNeal	Associate Professor of European History	1,500 00
Clarence Perkins	Assistant Professor of European History	1,500 00
W. R. Lazenby	Professor of Forestry	2,400 00
C. H. Goetz	Instructor in Forestry	800 00
C. S. Prosser	Professor of Geology	2,750 00
J. A. Bownocker	Professor of Inorganic Geology and Curator of Geological Museum	2,200 00
Thomas McD. Hills	Assistant Professor of Geology (part time)	1,170 00
W. C. Morse	Instructor in Geology	1,200 00
B. A. Eisenlohr	Associate Professor of Germanic Languages and Literatures	1,500 00
May Thomas	Assistant Professor of Germanic Languages and Literatures	1,200 00
A. Busse	Assistant Professor of Germanic Languages and Literatures	1,400 00
Sarah T. Barrows	Assistant Professor of Germanic Languages and Literatures	1,200 00
R. O. Busey	Instructor in Germanic Languages and Literatures	1,000 00
H. H. Bumgardner	Assistant in Germanic Languages and Literatures	375 00
J. R. Smith	Professor of Greek	2,750 00
A. W. Hodgman	Professor of Classical Languages	2,000 00
W. S. Elden	Professor of Classical Languages	2,000 00
F. P. Graves	Professor of History and Philosophy of Education	3,000 00
Wendell Paddock	Professor of Horticulture	2,500 00
V. H. Davis	Assistant Professor of Horticulture	1,100 00
L. M. Montgomery	Assistant Professor of Horticulture	1,500 00
F. E. Sanborn	Professor of Industrial Arts and Director of Department	2,200 00
W. A. Knight	Associate Professor of Machine Shop Practice	1,400 00
C. P. Crowe	Instructor in Forging	1,300 00
C. M. Beem	Instructor in Pattern-making & Founding	1,100 00
A. A. Case	Instructor in Vise-Work (11 mos.)	990 00
U. W. Denman	Assistant in Pattern-making (11 mos.)	880 00
R. M. Galloway	Student Assistant in Industrial Arts	300 00
S. C. Derby	Professor of Latin	2,750 00
John J. Adams	Professor of Law and Dean of the College of Law	5,000 00
W. H. Page	Professor of Law	3,000 00
G. W. Rightmire	Professor of Law	3,000 00
A. H. Tuttle	Professor of Law	3,000 00
W. B. Cockley	Assistant Professor of Law	1,500 00
J. A. Shauck	Professor of Law	1,000 00
E. B. Dillon	Professor of Law	800 00
E. B. Kinkead	Professor of Law	800 00
Olive Jones	Librarian	2,000 00
Gertrude Kellicott	Accession Librarian	1,100 00
Maud D. Jeffrey	Reference Librarian	1,300 00
Charles W. Reeder	Assistant Reference Librarian	1,050 00

Name of Employees	Position.	Salary.
Mirpah G. Blair	Head Cataloguer	1,060 00
Alice L. Wing	Cataloguer (part time)	700 00
Ida L. Wolf	Assistant Accession Librarian	720 00
Blanche L. Seipel	Catalogue Assistant	600 00
Harriet N. Townshend	Assistant in Library	650 00
Elizabeth H. Smythe	Assistant in Library (part time)	180 00
Aline B. Carder	Assistant in Library (part time)	350 00
Charles F. McCombs	Accession Assistant (part time)	65 00
Donald Leidigh	Accession Assistant (part time)	375 00
Harry R. O'Brien	Night Assistant	300 00
T. K. Lewis	Assistant Professor of Manual Training	1,500 00
R. D. Bohannan	Professor of Mathematics	2,750 00
G. W. McCoard	Professor of Mathematics	1,800 00
K. D. Swartzel	Professor of Mathematics	2,000 00
H. W. Kuhn	Professor of Mathematics	2,000 00
C. L. Arnold	Associate Professor of Mathematics	1,500 00
S. E. Rasor	Associate Professor of Mathematics	1,500 00
J. B. Preston	Assistant Professor of Mathematics	1,500 00
C. C. Morris	Assistant Professor of Mathematics	1,300 00
Grace Bareis	Assistant Professor of Mathematics	1,200 00
Hortense Rickard	Assistant in Mathematics	600 00
James H. Weaver	Substitute Instructor in Mathematics	1,200 00
W. T. Magruder	Professor of Mechanical Engineering	2,750 00
E. A. Hitchcock	Professor of Experimental Engineering	2,100,00
Horace Judd	Associate Professor of Experimental Engineering	1,700 00
A. Vallance	Assistant Professor of Experimental Engineering	1,000 00
H. H. Bailey	Assistant in Mechanical Engineering	750 00
A. L. Hopkins	Fellow in Mechanical Engineering	300 00
J. J. Davis	Machinist	850 00
Roy Pratt	Helper and Fireman	660 00
J. E. Boyd	Professor of Mechanics	2,250 00
E. F. Coddington	Associate Professor of Mechanics	1,800 00
Fred S. Griffin	Student Assistant in Mechanics	350 00
N. W. Lord	Professor of Metallurgy and Mineralogy and Director of School of Mines	2,000 00
E. E. Somermeier	Professor of Metallurgy	1,900 00
D. J. Demorest	Assistant Professor of Metallurgy and Mineralogy	1,500 00
O. W. Buck	Student Assistant in Metallurgy and Mineralogy	350 00
G. L. Converse	Professor of Military Science and Tactics	450 00
Gustav Bruder	Band Master	300 00
Frank A. Ray	Professor of Mine Engineering	1,500 00
Wells H. Minor	Assistant Professor of Mine Engineering	1,500 00
H. E. Nold	Assistant in Mine Engineering	750 00
H. B. Northrup	Student Assistant in Mine Engineering (1st semester)	150 00
C. M. Shinn	Student Assistant in Mine Engineering	300 00
George B. Kauffman	Professor of Pharmacy	2,000 00
C. A. Dye	Professor of Pharmacy	1,900 00
Edward Spease	Instructor in Pharmacy	1,000 00
L. P. Shinn	Student Assistant in Pharmacy	300 00
J. A. Leighton	Professor of Philosophy	2,600 00
A. E. Davies	Professor of Philosophy	1,700 00
H. Shindle Wingert	Professor of Physical Education	2,750 00
Alice Littlejohn	Associate Professor of Physical Education	1,000 00

Name of Employees	Position.	Salary.
J. Thomas Kibler	Assistant in Physical Education (part time)	560 00
E. A. Bauer	Assistant in Physical Education	860 00
Dora Sauer	Assistant in Physical Education	400 00
Mayme Chambers	Maid in Physical Education—Women's Dept. (part time)	120 00
Imo Chambers	Maid in Physical Education—Women's Dept. (part time)	240 00
A. D. Cole	Professor of Physics	$3,000 00
B. F. Thomas	Professor of Physics	2,500 00
R. F. Earhart	Associate Professor of Physics	1,700 00
F. C. Blake	Assistant Professor of Physics	1,600 00
Charles Sheard	Assistant Professor of Physics	1,400 00
A. W. Smith	Assistant Professor of Physics	1,500 00
H. G. Heil	Instructor in Physics	1,000 00
C. Nusbaum	Assistant in Physics	750 00
G. O. Weimer	Assistant in Physics	750 00
F. W. Pote	Assistant in Physics	700 00
Ray L. Edwards	Fellow in Physics	300 00
William Hausstein	Mechanism (part time)	600 00
H. R. Spencer	Professor of Political Science	2,350 00
Walter J. Shepard	Assistant Professor of Political Science.	1,500 00
T. S. Lowden	Associate Professor of Principles and Practice of Education	1,800 00
D. R. Major	Professor of Psychology	2,500 00
T. H. Haines	Professor of Psychology	1,800 00
B. L. Bowen	Professor of Romance Languages	2,000 00
C. A. Bruce	Professor of Romance Languages	2,000 00
E. S. Ingraham	Associate Professor of Romance Languages	1,600 00
W. T. Peirce	Assistant Professor of Romance Languages	1,300 00
T. E. Hamilton	Assistant Professor of Romance Languages	1,200 00
Vittorio Falorsi	Instructor in Romance Languages	1,000 00
George S. Chapin	Substitute Instructor in Romance Languages	1,200 00
H. C. Price	Professor of Rural Economics	2,750 00
Thomas D. Phillips	Assistant in Rural Economics	1,000 00
John Chisholm	Superintendent of University Farm	1,260 00
J. Warren Smith	Professor of Meteorological Science	500 00
W. W. Boyd	Professor of School Administration	2,750 00
D. S. White	Professor of Veterinary Medicine	3,000 00
S. Sisson	Professor of Comparative Anatomy	3,000 00
J. H. McNeil	Professor of Veterinary Surgery and Obstetrics	2,750 00
O. V. Brumley	Associate Professor of Veterinary Medicine	1,900 00
A. G. G. Richardson	Professor of Veterinary Pathology	2,400 00
F. A. Lambert	Assistant Professor of Veterinary Anatomy	1,400 00
James H. Snook	Assistant in Veterinary Medicine	750 00
R. A. Scothorn	Assistant in Veterinary Medicine	750 00
F. H. Landrum	Technician	450 00
Herbert Osborn	Professor of Zoology and Entomology	2,750 00
F. L. Landacre	Professor of Zoology and Entomology	1,800 00
J. S. Hine	Associate Professor of Zoology and Entomology	1,600 00
William M. Barrows	Assistant Professor of Zoology and Entomology	1,400 00

Name of Employees	Position.	Salary.
A. F. Shira	Fellow in Zoology and Entomology (part time)	30 00
G. W. Hood	Fellow in Zoology and Entomology (part time)	270 00
Ray Niswonger	Fellow in Zoology and Entomology	300 00
Marie McLellan	Student Assistant in Zoology and Entomology	200 00
C. L. Metcalf	Student Assistant in Zoology and Entomology	200 00
B. B. Fulton	Student Assistant in Zoology and Entomology	150 00
F. B. Pearson	High School Visitor	2,200 00
G. R. Twiss	High School Visitor	2,200 00
A. B. Graham	Superintendent of Agricultural Extension	2,000 00
C. R. Titlow	Assistant in Agricultural Extension	1,200 00
C. D. Steiner	Assistant in Agricultural Extension	1,000 00
H. E. Eswine	Assistant in Agricultural Extension (part time)	916 68
G. A. Bricker	Assistant in Agricultural Education	1,500 00
Firman E. Bear	Assistant Professor in Agricultural Chemistry — Agricultural Extension.	1,500 00
E. D. Waid	Assistant Professor in Agronomy — Agricultural Extension	1,700 00
W. H. Darst	Assistant in Agronomy — Agricultural Extension	1,000 00
George Livingston	Assistant in Agronomy — Agricultural Extension (part time)	700 00
R. L. Shields	Instructor in Animal Husbandry — Agricultural Extension (part time).	250 00
George F. Story	Assistant in Animal Husbandry — Agricultural Extension (part time).	833 30
Harry Evans	Assistant in Animal Husbandry — Agricultural Extension (part time).	900 00
E. F. Rinehart	Assistant in Dairying — Agricultural Extension	1,000 00
V. H. Davis	Assistant Professor of Horticulture — Agricultural Extension (part time).	700 00
J. H. Gourley	Assistant Professor of Horticulture — Agricultural Extension (part time).	1,275 02
Mary Edmonds	Assistant in Domestic Science — Agricultural Extension	1,000 00
Elizabeth Jefferson	Assistant in Domestic Science — Agricultural Extension	1,000 00
Inez Van Sickle	Assistant in Domestic Science — Agricultural Extension	750 00
Mabel Miskimen	Assistant in Domestic Science — Agricultural Extension	750 00
Clare West	Assistant in Domestic Science — Agricultural Extension	750 00
Nellie Woods	Assistant in Domestic Science — Agricultural Extension	750 00
T. L. Wheeler	Editor — Agricultural Extension (part time)	450 00
Ruth James	Clerk — Agricultural Extension	660 00
Eva Brown	Stenographer — Agricultural Extension (part time)	517 50
Lenore Peck	Stenographer — Agricultural Extension (part time)	300 00
Alice McMillen	Stenographer — Agricultural Extension (part time)	360 00

Name of Employees	Position.	Salary.
C. A. Melick	Robinson Fellow	500 00
Nellie Copeland	Stenographer — Townshend Hall	660 00
H. G. Lang	Record Clerk — Townshend Hall	600 00
W. Aimee Obaugh	Stenographer — Townshend Hall	600 00
Elizabeth J. Fyffe	Clerk in Reading Room — Townshend Hall	360 00
John F. Madden	Clerk — Military Science	500 00
William Arthurson	Clerk — Military Science (4½ mos.)	157 50
W. F. Felch	Stenographer — Armory and Gymnasium	500 00
Harriet Schneider	Stenographer — Page Hall	600 00
Mary L. Lahmering	Stenographer — Mines Building	600 00
Ruth J. Neal	Stenographer — Engineering College	550 00
Mina Kennedy	Stenographer — Hayes Hall	540 00
Edna Burnham	Stenographer — Engineering Laboratory	600 00
Nellie Thurston	Stenographer — Chemistry Hall	600 00
Nettie Shugert	Stenographer — Brown Hall	600 00
Louise Stickelmyer	Stenographer — Veterinary Laboratory	600 00
Isabel McNeal	Stenographer — Entrance Board	600 00
Edith D. Dibble	Stenographer — Judging Pavilion (part time)	90 00
Rose Dunn	Stenographer — Judging Pavilion (part time)	150 00
Ruth McManamy	Stenographer — Judging Pavilion (part time)	250 00
Katharine H. Duncan	Executive Clerk	1,400 00
Alta L. Rausch	Stenograper — President's Office	720 00
Bernice Blue	Stenographer — President's Office	540 00
Ethel M. Althoff	Stenographer — President's Office	540 00
Lulu G. Smith	Stenographer — Editor's Office	540 00
Carl E. Steeb	Secretary, Board of Trustees and Purchasing Agent	2,300 00
R. M. Royer	Assistant Purchasing Agent	1,500 00
W. E. Mann	Accountant (part time)	375 00
W. E. Mann	Editor (part time)	1,200 00
Bess C. Watters	Assistant in Secretary's Office (part time)	225 00
Bess C. Watters	Cashier (part time)	720 00
Mary Kraus	Inventory Clerk	780 00
K. D. McMahon	Accountant (part time)	630 00
Jane S. Haskett	Assistant in Secretary's Office (part time)	552 50
Maude Blue	Stenographer — Secretary's Office	540 00
Louise Kraus	Stenographer — Secretary's Office	540 00
Harriet Messenger	Clerk — Secretary's Office	355 50
Clara L. Baker	Clerk — Secretary's Office	180 00
E. B. Stevens	University Editor (part time)	283 32
Edith D. Cockins	Registrar	1,400 00
Lucy M. Taylor	Assistant to Registrar	780 00
Alice A. Thacker	Assistant to Registrar	660 00
Helen H. Mackall	Assistant to Registrar	660 00
F. E. Jones	Storekeeper	1,080 00
C. H. Lucas	Assistant Storekeeper (part time)	487 50
H. West	Assistant in Store Room (part time)	50 00
H. W. Brewer	Assistant in Store Room (part time)	630 00
W. C. McCracken	Chief Engineer and Superintendent of Buildings	2,200 00
Herbert Edwards	Assistant Superintendent of Buildings and Construction	1,560 00
William Standley	Assistant Chief Engineer	1,080 00
W. H. Case	First Engineer	960 00
Curry Sesler	Second Engineer	840 00

Name of Employees	Position.	Salary.
Fred B. Brewer	Engineer and Helper	700 00
James W. Dezern	Third Fireman (part time)	111 20
Otto Law	Third Fireman (part time)	520 00
Marion Peck	Helper (part time)	450 00
Samuel Lowery	Second Fireman	650 00
C. Ashenhurst	First Fireman	650 00
B. A. LeBay	Steamfitter	900 00
I. C. Reasoner	Blacksmith	660 00
J. P. Covan	Electrician and Machinist	1,260 00
F. H. Beck	Assistant Electrician	840 00
Robert C. Kaiser	Plumber	1,080 00
A. O. Kaiser	Helper	145 50
H. Osborn	Janitor and Helper	660 00
C. M. Dunbar	Clerk	540 00
Thomas Richards	Janitor — University Hall	660 00
B. N. Lewis	Janitor — University Hall	540 00
D. W. Williams	Janitor — Chemistry Hall	540 00
R. M. Moore	Janitor — Chemistry Hall	540 00
William Daehler	Janitor — Chemistry Hall	540 00
M. N. Cook	Janitor — Hayes Hall	540 00
W. M. Stahl	Janitor — Armory and Gymnasium	600 00
Richard Brandon	Janitor — Armory and Gymnasium	600 00
E. J. Nutt	Janitor — Brown Hall and Engineering Laboratory	540 00
John W. Brown	Janitor — Page Hall	600 00
Starling Eaton	Janitor — Page Hall (part time)	360 00
Earl Conway	Janitor — Physics Building	600 00
W. W. Whitmer	Janitor — Orton Hall and Physics Building	540 00
Harry Chantler	Janitor — Orton Hall	600 00
Lou. Cornett (Mrs.)	Janitress — Orton Hall	420 00
G. C. Denny	Janitor — Horticultural Hall and Botanical Building	600 00
F. A. Kendig	Student Janitor — Observatory	281 25
John Hendry	Groom — Veterinary Clinic (part time)	330 00
Hugh Crooks	Groom — Veterinary Clinic (part time)	330 00
James C. Leist	Janitor — Veterinary Clinic	500 00
E. L. Clements	Janitor — Veterinary Laboratory	600 00
Fred Fleischer	Janitor — Townshend Hall	600 00
E. B. Seaman	Second Janitor — Townshend Hall	480 00
T. G. Watson	Student Janitor — Botanical Building	125 00
Oliver Smith	Janitor — Engineering Laboratory	540 00
W. R. Thomas	Janitor — Brown Hall	480 00
L. F. Jordan	Janitor — University Hall	540 00
J. W. DeWitte	Janitor — Mines Building	540 00
J. A. Bond	Janitor — Mines Building	540 00
Robert Hall	Janitor — Biological Hall	540 00
A. B. Clements	Janitor — Veterinary Laboratory	500 00
S. A. Williams	Janitor — Orton Hall and Physics Building	500 00
J. T. Miller	Janitor — Townshend Hall	500 00
John Ricketts	Day Policeman (part time)	385 00
William North	Day Policeman (part time)	256 66
W. F. Mahaffey	Night Watchman	660 00
John T. Daniels	Night Watchman	660 00
M. S. Harvey	Elevator Man	300 00
H. E. Truxall	Painter	900 00
Charles M. Hicks	Inspector of Buildings and Janitors	720 00

ESTIMATES

Estimate of expenses for maintenance for the year ending June 30, 1912:

Bonds and interest	$27,475 00
Salaries	510,000 00
Fuel and light	22,000 00
Repairs—Buildings	15,000 00
Advertising	800 00
Roads and grounds	15,000 00
Water rents	5,000 00
Incidentals	10,000 00
Expenses—trustees	500 00
Board of publication	7,500 00
Current expenses—departments	45,000 00
Summer term	15,000 00
Books	25,000 00
Apparatus and equipment	20,000 00
	$718,275 00

The above are provided for out of the regular funds of the University and from special appropriations made by the legislature.

The special appropriations made by the 79th General Assembly, for expansion, are listed in the report of the president, and are being spent for the definite purposes for which they were made.

PROGRESS OF THE UNIVERSITY

The changes in the faculty, enrollment of students, degrees conferred, and the courses of instruction offered, as well as the general progress of the university during the past year, are given in the report of the president of the university, and in the appendices.

Respectfully submitted,

CARL E. STEEB, *Secretary.*

REPORT OF THE DEAN OF THE COLLEGE OF AGRICULTURE

COLUMBUS, OHIO, JULY 27, 1911.

DR. W. O. THOMPSON, *President of Ohio State University,*

DEAR SIR:—As Dean of the College of Agriculture I have the honor to submit the following report for the year ending June 30, 1911:

ENROLLMENT

The enrollment in the freshman Class in the Degree Courses in Agriculture, Horticulture, and Forestry for the year was 193, and in Domestic Science 90, which is an increase of 100 per cent. over the enrollment of the previous year. In the first year of the two-year Courses in Agriculture and Horticulture the enrollment was 72, which is no increase over the enrollment in these Courses in previous years. These figures show that the growth of the College is taking place in the Degree Courses almost entirely.

The tabulated enrollment of the College for the past five years is as follows:

	1907	1908	1909	1910	1911
Graduate students	4	3	9	8	5
Undergraduates	278	308	380	467	660
Winter Course	136	193	250	159	183
Total	418	504	639	634	848

ORGANIZATION OF THE COLLEGE

During the year the Board of Trustees assigned the Departments of the University to specific Colleges for the purpose of administration and to the College of Agriculture were assigned the Departments of Agricultural Chemistry, Agronomy, Animal Husbandry, Botany, Dairying, Domestic Science, Forestry, Horticulture, Meteorology, Rural Economics and Zoology and Entomology.

Annual reports from these Departments have been asked for by the Dean of the College and will be included in part in this report. Few changes have taken place in the Faculty of the College during the past year although several members have been offered positions in commercial work at very much greater salaries than they are now receiving, in some cases almost double their present salary.

AGRICULTURAL EXTENSION

The General Assembly made a special appropriation of $50,000 for carrying on the work in Agricultural Extension during the past year. The different lines of work that have been carried on with this appropriation are listed below:

Agricultural Extension Schools for men	79
Domestic Science Schools for women	75
Total attendance at these schools	17,000
Agricultural Special Trains	7
Attendance	16,190
Open Grange meetings	77
Attendance	4,700
Farms visited by instructors who lectured at Grange meetings	149
Spraying and pruning demonstrations	193
Attendance	13,700
Exhibits at County Fairs	12
Exhibit at National Corn Show	.....
Exhibit at State Apple Show	.....
Saturday meetings for teachers teaching Agriculture	2
School visits in the interest of agricultural and domestic art contests	123
Citizens' meetings, Farmers' Institutes, Commencements, etc.	128
Special Domestic Science meetings, 1 to 4 days	9
Country Life Conferences	6
County newspapers furnished with plate material on Agricultural subjects	148
Corn thinning meetings	35
Field meetings, wheat	1

Agricultural College Extension Bulletins—
10 issues, 30,000 copies each.

Farmers' Reading Course Bulletins—
6 issues, 5,000 copies each.

Home Makers' Reading Course Bulletins—
6 issues, 5,000 copies each.

Supplements on corn, grain drills, poultry, dairying, drainage, pruning, spraying, and methods of teaching agriculture—
10,000 to 25,000 each.

Boys' Corn Contests and Girls' Sewing and Baking Contests. No accurate count can be kept. A safe estimate would be..	200
Corn Shows at which corn has been judged.....	30
Corn samples collected from different parts of the State and tested	133
Soil samples collected from different parts of the State and analyzed	101

REQUESTS FOR AGRICULTURAL EXTENSION SERVICE DURING 1911-1912.

Agricultural Extension Schools—Applications.....	120
Different counties represented.....	75
Agricultural Trains for August, 1911.....	6
Correspondence concerning trains at other times.....	3
Newspapers asking for Agricultural matter in plate form.....	175
Requests for exhibits at County Fairs.....	45
Granted	15

The demand for extension work is shown by the fact that 120 requests were made for extension schools for the coming year and that these requests came from 75 Counties. Owing to the fact that only $40,000 were appropriated for carrying on this work during the present year it has been necessary to retrench and the number of Extension Schools that will be held during the coming year reduced. 42 schools have been granted which is as many as the Department will be able to conduct with the present appropriation.

AGRICULTURAL CHEMISTRY

Professor Vivian reports for this Department that: "The work of Dr. Lyman is worthy of special mention. I feel that with him in charge of the work for Domestic Science students, our students are probably given more nearly the kind of Chemistry Domestic Science students need than those of any other Institution with which I am acquainted. Dr. Lyman, Miss Wardall, Miss White and myself have had several conferences in which we have discussed the correlation of the work of the two Departments. I think we have arrived at an understanding which will enable us to give the young women what they need with the minimum amount of repetition and duplication. Miss Wardall expresses herself as highly pleased with the training her students are getting under Dr. Lyman. All the work on human foods has been turned over to him. Just before his arrival the Faculty of the College of Arts placed our

Course in food analysis upon their elective list. As a consequence a number of Arts students have been taking this Course during the past year.

An interesting piece of research was carried on by Miss Freeman for her Master's Degree thesis. This work was under Dr. Lyman and was a study of the effect of baking powders on digestion and metabolism. It involved a large amount of work (for which Miss Freeman is entitled to considerable credit), and gave data of sufficient interest to warrant more work along the same line.

Owing to the small instructional force of the Department any great amount of research is impossible, so we are confined largely to what can be done by the students under our direction.

We are slowly accumulating data along a few lines, viz.: Effect of chemical composition of wheat on baking quality of flours; effect of environment on composition of sugar beets; position of water soluble plant food in plant nutrition; chemical changes in silage; effect of cropping in supply of plant food in the soil; loss of ammonia from manure. We are also conducting some research along the line of improving various analytical methods. We hope the time will soon come when research will take a more important place in the work of this Institution."

AGRONOMY

The following outline of the work of this Department is submitted by Professor McCall, head of the Department.

Crop Work

The position made vacant by the resignation of Associate Professor Shoesmith has not been filled, the head of the Department having taken direct charge of the instruction in crops. On January 11, 1911, the teaching force was increased by the employment of C. J. Grant, of Storrs Experiment Station. Mr. Grant assisted in the laboratory until April 1, at which time he was granted leave for five months without pay in order that he might familiarize himself with Ohio conditions by a season's work at the Ohio Experiment Station. For the remainder of the year Mr. George Livingston, of the Extension force, was in charge of the crops laboratory.

During the year extensive changes have been made in the Farm Crops laboratory. The floor space has been divided into two main laboratory rooms, a small research laboratory, a storage room and two germination chambers. In addition to this, the laboratory has been equipped with three large storage cases for corn samples and a large herbarium case. It is hoped to complete the equipment during the coming year by the addition of tables or desks for student use and storage cases for small grains.

Preliminary steps have been taken to remove the plot work of the

Department from the field north of the Power Plant to the field bordering on Tenth Avenue, where the plots may be securely fenced against trespassers.

The Department is conducting investigations with corn, alfalfa and grasses. This work includes corn breeding and registration and variety tests of corn; selection and testing of individual plants of alfalfa, timothy and orchard grass; variety tests of oats, soy beans and cowpeas and a few other tests of various kinds.

Soil Work

The instruction in soils has been given by the head of the Department or Agronomy, assisted by Mr. H. J. Bower, who has had charge of the laboratory work. The decided increase in the enrollment in these Courses has made the work unusually difficult this year, on account of the lack of equipment. However, in spite of this handicap I feel that this has been the most satisfactory year of soils work in the history of the Department.

The advent of a number of Forestry students has brought forward a new problem in the work, which may necessitate in time, the offering of a special Course in soils designed especially for students in Forestry.

On account of the change in the sequence of the Courses, adopted by the faculty last year, an abnormally large number (estimated at 175) will be required to take the work in soils next year. This will necessitate a large increase in desk space and equipment and probably the assignment of two students to each desk.

Within the year Mr. Bower has undertaken a very important line of research work. The object of this research is to study the movements of soil moisture and soluble salts under normal field conditions. For this purpose large blocks of soil have been isolated in galvanized iron tanks, (without disturbing their natural condition). Crops are being grown on this soil and it is hoped that very important data will be secured that will throw light upon some important points in connection with the capillary movement of soil moisture.

Agricultural Engineering

The equipment of the old Veterinary Building for Agricultural Engineering has resulted in a marked improvement in this work and has served to attract many students to the elective Course. The number of students electing Agricultural Engineering in 1909-10 was four, while in 1910-11, seventeen were enrolled for this work.

Manufacturers and dealers have been quite generous in their loans to the Department. During the year we have had the use of truck automobiles, traction engines, gasoline engines and many other pieces of machinery without any cost to the Department other than drayage to and from the warehouse.

Next year two new Courses will be offered for those students who

are especially interested in farm mechanics. Agronomy 114, Advanced Farm Machinery, will offer a detailed study of the construction of farm machines and expert work in assembling and testing machinery and engines. Agronomy 121, Farm Architecture, will include a study of building materials, principles and methods of ventilation and the cost of construction as applied to farm structures. A room has been equipped with drawing tables to accommodate this work and also the regular work in Agricultural Engineering.

In view of the large number of laboratory sections scheduled for next year, it will be necessary to provide an assistant who can devote his entire time to keeping the laboratory in order. It is suggested that there be employed by the year, a man, whose time during the winter would be devoted to the laboratory and during the summer to the field plot work.

Graduate Work

The Department is now offering graduate Courses in Soils and Crop Production and some very creditable work is being done by candidates for Master's Degrees.

In view of the great demand for teachers and investigators in Agronomy lines I feel that the graduate work should be developed and encouraged by a system of scholarships or fellowships which would offer an inducement to students desiring to prepare for college or experiment station positions. Practically all of the strong graduate work in the Agricultural Colleges, such as Cornell and Illinois, has been developed by offering fellowships in the College or part time assistantships in the experiment station.

Extension Work

The Department has had from two to four men in the Extension work during the year. Three men have devoted their entire time to the field work in Extension, with a fourth man employed for the Extension Schools during the Winter Season. The head of the Department has devoted considerable time to Extension schools and special trains. Considerable time has been devoted to the preparation of Extension and Reading Course Bulletins and to the writing of monographs for distribution by the railroads over which special trains have been operated.

ANIMAL HUSBANDRY

This Department reports through Professor Plumb, the head of the Department, that:

"The year ending July 1st has been the most prosperous one in the history of the Animal Husbandry Department. Three instructors have devoted the entire year to the regular class work, while one additional instructor was employed for the laboratory work with the Short Winter

Course Classes. The freshman four year class, which numbered about 160 students, was divided into two section for lectures, and four sections for laboratory work, so that a student Assistant was necessary in the laboratory section. Approximately 400 different students carried work in this Department during more or less of the University year. The students took an active interest in the work and cordially co-operated with the instructors to promote the welfare of the Department.

The animal husbandry students were the prime factors in establishing two movements of importance in this Department. One was the organization of a Saddle and Sirloin Club composed at the start of about 100 men. This Club plans to promote the work of the Department through organized effort among the students, through monthly meetings when special subjects of interest will be considered, such as demonstrations in judging, having addresses on certain topics, holding meetings at stock farms, etc. Another movement of the students, was raising a fund of something over $50.00 for purchasing a beautiful sterling silver cup, to be known as the "Ohio Students' Cup." This is to be competed for each year at the Ohio State Fair, by former students of the Uniiversity, who may be exhibiting sheep. The conditions of competition provide that the cup must be won three times to become the permanent property of the winner, and that he must show one yearling ram with two ewes, and two ewe lambs of his own breeding. It shows a fine interest on the part of the students, that they should contribute such a splendid trophy for competition by former students.

We now have in the Department about 20 horses of various ages, including Percherons, Clydesdales, Hackneys, a Morgan stallion, and cross-bred or grades; about 75 cattle, including Shorthorns, Aberdeen Angus, Jerseys, Holsteins, Guernseys, Kerrys and cross-breds; about 100 hogs and pigs, including Berkshires, Large Yorkshires, Duroc-Jerseys and cross-breds, and about 50 sheep, including Shropshires, Southdowns, Merinos and Cotswolds. The general health of the live stock during the year has been excellent.

The 79th General Assembly appropriated for the University, $7,500 for a poultry building and equipment and $5,000 a year for two years for livestock and maintenance. These appropriations will greatly add to the efficiency of the work of the Department, especially as it will enable the University to seriously take up educational work in poultry husbandry, for which there is a very active demand at this time."

BOTANY

The Botany Department reports that:—

There was a very large increase in the number of students enrolled in the fall Semester which necessitated an unusual amount of work from all the instructors in the Department. Fall Semester, 225—Spring Semester 266.

The following table shows the growth of the Department during the last three years:

ENROLLMENT, SPRING TERM OR SEMESTER

1908....	College Students..	76	Short Course..	39	Total..	115
1909....	College Students..	123	Short Course..	37	Total..	160
1910....	College Students..	153	Short Course..	15	Total..	168
1911....	College Students..	247	Short Course..	19	Total..	266

RESEARCH

Notwithstanding the heavy work with students, a considerable amount of research work was accomplished by the Instructional force.

John H. Schaffner completed the new catalogue of the Plants of Ohio which will be published shortly.

Dr. Alfred Dachnowski continued his work on the peat deposits, peat soils and ecology of peat areas in Ohio.

Professor Robert F. Griggs (on leave of absence at Harvard University) carried on investigations on Fungi.

Miss Freda Detmers continued her work on the sedges of Ohio and certain ecological studies.

Mr. Wilmer G. Stover completed his catalogue of the Toadstools of Ohio, which will shortly be published.

A considerable number of papers were published during the year on various subjects including classification of Plants, Physiology and Morphology.

HERBARIUM

Through the aid of the herbarium a large number of weeds and other plants was identified for people in various parts of the state, including farmers, teachers and botanists.

Several important donations were made including a large collection of plants by Mrs. Jane Spese, of Springfield, and one collected by Mrs. Euradine Leue, presented by Miss Elsie Leue. At present the growth of the Herbarium and museum is greatly hampered because of lack of space and cases.

DAIRYING

Owing to the fact that the work of this Department has not been reported upon as fully as many other Departments in recent years, the following rather extensive report of Professor Erf is included, and special attention is called to the report upon the commercial work of the Department, since the propriety of this phase of work is sometimes raised.

"For the sake of convenience I wish to classify the work done by the Dairy Department, under the following heads: Instructional, Commercial, Advanced Registry, Extension, Correspondence and Investigational.

Instructional—The Department of Dairying gave instruction to 262 students the past year, of which 155 were in the regular two and four year courses, 78 in the winter course in Agriculture and 29 in the special winter course in Dairying. This is a decided increase over previous years. Three instructors besides myself have been employed in the Department regularly. Only part of our time has been given to instructional work, since the commercial work and testing required much of it. The instruction given has been as good as possible, I believe, under the conditions. We, however, feel that better results might be obtained with more room and more and better equipment at our command. The students were very much handicapped during the past winter on account of lack of room to do their work. Neither was there sufficient locker room. During the short courses there were, at one time, 185 students to take the testing work. Our testing laboratory accommodates about 32. Even if the time for classes could have been systematically arranged during the college hours, the laboratory would not have accommodated all of them properly.

The same is equally true in our milk bottling laboratory, where we are compelled to limit the number of students to two or three, in order to give them the proper training. The creamery butter making laboratory and its equipment are the best of all, and while we have been somewhat handicapped on account of lack of equipment during the short courses, still we feel that the work was done quite efficiently. There is at present a very strong demand for farm buttermaking, and while we have had almost no facilities for this in the past, we have given instruction as well as possible with the creamery buttermaking equipment. During the past year there have been a large number of students who felt that work in farm buttermaking should be given at the University. A small equipment for this purpose would provide for the demand.

The courses in cheese-making, ice cream making and milk condensation are gradually growing. There is an exceptional demand for instruction in soft cheese making, and it is hoped that more help and better equipment can be provided for these different courses. Owing to the lack of help, arrangements have been made with the Agronomy Department to give a part of the instruction in the course in Dairy Mechanics. The work in the Dairy Department given along this line pertained strictly to plumbing and soldering, which, of course, is very essential, and a sufficient amount of this kind of work has not been offered in any other Department.

Commercial—By June 30, 1911, the Dairy Department will have expended approximately $21,000 for the fiscal year and the returns will have been about $19,000. This leaves a loss of $2,000 for the Department after everything has been paid for. The Department has paid expenses incurred in the cow testing work, the salary of one man who devoted all of his time to giving instruction, and paid for the chemical and bacteriological equipment necessary to give instruction in the Department.

Owing to the fact that this report is being given previous to June 30th, only an approximate estimate can be made, but up to June 15th the expenditure for instructional work has amounted to $5470, which should be deducted from the $21,000. This would leave an expenditure for the commercial work, of $15,530. To this must be added the cost of milk received from the Animal Husbandry Department, $930; the use of a horse, $240; coal and electricity, $250; and water, $70. Since we furnish gratuitously on an average of 150 pounds of ice per day and also skim milk to the various departments of the University, we estimate that all other charges such as gas, repairs, etc., would balance this. A total of $1400 must be added to $15,530, which makes a total of $17,020. This leaves a balance of approximately $2000 for the commercial work of the Department, after figuring the interest upon the investment and upon the machinery.

There is an excellent demand for all products of the Dairy Department, especially milk, cream and butter, but owing to the objection of private concerns we have not increased the output. It will, however, be necessary to increase it to a slight extent in the future, depending upon the number of students. It will also be necessary to develop to quite an extent, the cheese making, ice cream making and condensed and fermented milk.

During the past year the Department has sold approximately 88,000 quarts of milk and cream equivalent. As near as can be estimated from the daily returns, it has cost about 3.96 cents to distribute a quart of milk. This includes, of course, the item of transportation from the farm to the dairy. The average cost of milk per gallon, to the Department, is 20 cents, and it is sold at 10 cents per quart. In a few cases 12 cents per quart has been collected, owing to delinquent payments.

Up to June 30th the Department will also have manufactured about 30,765 pounds of butter during the year. On the basis of weekly estimates it costs approximately 4.4 cents to manufacture a pound of butter. We pay 4 cents above Elgin quotations during the winter months and 2 cents above Elgin during the summer months. This has reference to first grade cream only. For second grade cream the price is reduced 2 cents. However, very little second grade cream has been received; consequently, the average price for the year has been 3 cents above the market quotation. Butter is wholesaled and retailed from our laboratory. The wholesale price has been from 2 cents to 4 cents above Elgin quotations and the retail price has been 6 cents to 8 cents above Elgin quotations. Figuring on the average basis this leaves us 1 cent margin between the price paid to the producer, which is 3 cents above Elgin quotation, and the price to the consumer, which is 4 cents above Elgin quotations for butter, not including the average overrun, which is approximately 16 per cent.

Since cheese making has been only instructional and since we did not

have it on a commercial basis, it has been quite a loss to the Department. The same is true with the ice cream, condensed milk and fermented milk, all of which are really in an experimental stage. But, with the proper facilities, we hope to make the manufacture of these products as profitable as the milk, cream and butter.

ADVANCED REGISTRY WORK—The work of testing cows for the Advanced Registries has increased at an enormous rate. Two years ago about 25 cows were tested, and one year ago there were about 160. While this year, ending June 30th, 625 had been tested. Forty-eight different men were employed at different times to conduct these tests, and altogether it required 72,340 individual tests to certify to these records. While it is true that the owners of the cows are paying $2 per day for the work, together with the traveling expenses and board and lodging of the tester, this, however, is only a part of the expense involved in the work, and the rest falls upon the Department. Such items of expense as telephone and telegraph messages, correspondence, the copying of records, directing the testers, checking the composites and the individual tests, requires the work of two people constantly during the year, besides the accompanying expense that is involved in doing the work. This work, however, is resulting in great good to the State. In fact, I am told by the dairymen, that no scheme has recently been devised that is of so great a value to the dairymen as this particular class of work. From all indications, this coming year there will be over 1200 cows to be tested for the Advanced Registries. This, of course, will double the work for the coming year. The Dairymen's Association has asked for an appropriation of $2000 out of the regular Extension Fund, to provide for the clerical work, but the management of this work will necessarily have to be provided by the Department.

EXTENSION WORK—During the past year this work did not interfere so much with the regular work of the Department, owing to the fact that Mr. Rinehart was employed for this purpose, and Mr. Neale for part of his time; still, some of the instructional force were called upon to assist in this work. Such work as testing milk entered in prize contests for different cities, providing for the dairy exhibit at the National Corn Show and the City Milk Exhibit for Columbus, had to be taken care of by this Department. Besides this, our instructors are occasionally called upon to participate in farmers' institutes, local dairy meetings, etc., held throughout the State.

CORRESPONDENCE—Our correspondence increases every year, and especially has this been true this past year. As nearly as can be estimated we have answered 3,000 inquiries, besides attending to the correspondence pertaining to the commercial work of the Department.

EXPERIMENTAL WORK—Very little experimental work has been carried on in the Department, owing to the numerous other necessary duties. However, some lines of experimental work have been taken up,

especially the one pertaining to the pure culture for the manufacture of fermented milk, which is fast becoming a very important food product. Owing to the conflict of the development of this product with the present rulings of the health authorities, it has become necessary that some work be done to permit it to come under general regulations.

Some experimental work is being carried on in the manufacture of cheese especially the coagulation of curd for pimento cheese, and also the growing of molds for the manufacture of Camembert cheeses. We have been experimenting with the different systems of pasteurization, in order to get the best results in buttermaking, and have succeeded so well in the scheme that we have adopted, that many other creameries are now applying the same method.

This covers the most important work done by the Department during the past year. Such items as scoring and testing milk for the dairy associations, scoring dairy cattle, making private tests for individuals as well as for the Boards of Health, we have counted merely as side lines of our work. However, this requires considerable time.

In conclusion, what we especially wish to emphasize, is the necessity of more room and more equipment in the future. It will also be necessary to have more expert assistance in giving instruction in the manufacture of condensed milk, ice cream and soft cheeses."

FORESTRY

The remarkable growth of the Department of Forestry is set forth in the following report of Professor Lazenby:

"The growing interest in Forestry has been strikingly evinced by increased demands for information and assistance, as well as by a marked increase in the number of students.

When the four-year course was opened a year ago last September, 28 students presented themselves for enrollment. This year the number registered is 60.

Should anything like this rate of increase continue, we will be brought face to face with the following conditions: Either additional facilities must be provided or the number of students must be strictly limited.

According to rank in years, the 60 students in the Department are classified as follows:

Freshmen	35
Sophomores	15
Juniors	7
Seniors	3

The three Seniors completed the course in a satisfactory manner and have received the degree of B. Sc. in Forestry.

The number enrolled in the various classes was:

	First Semester	*Second Semester*
Elementary Forestry (101), (102)	42	43
Arboriculture (104)	..	23
Silviculture (105), (106)	7	7
Mensuration and Timber Physics (107)	5	..
Lumbering and Utilization (108)	..	13
History and Management (109)	4	..
Economics and Policies (110)	..	4
Thesis (sp. investigation)	2	2
Total	60	60

Mr. J. F. Ryder who was appointed assistant, declined the appointment and Mr. C. F. Goetz was appointed in his place.

Mr. Goetz came to us well recommended, and it gives me pleasure to state that he has added great strength to the Department. He has proved himself an earnest teacher, an enthusiastic forester and a man of unimpeachable character.

The course of study and methods of instruction have been essentially the same as reported somewhat in detail last year. The different courses in the Department are so arranged as to form a fairly logical and comprehensive under-graduate study of the whole subject of forestry.

Some additions have been made to the collection of illustrative material during the year, and numerous small donations of seeds, seedlings, woods, hand tools, etc., have added to the efficiency of the Department.

One step in advance is the establishment of a small forest nursery. While the main object of this nursery is the instruction and training of forestry students, it is my earnest hope that it may soon contribute material for the improvement of the campus and the whole University estate. I think we are all agreed that few things are of greater value to an educational institution than attractive surroundings. If the location be unattractive, the buildings uninteresting and the grounds devoid of interest and beauty, the institution cannot fulfill its true mission.

One of the most potent factors in the real success of a College or University is to be found in the affectionate regard of its teachers, alumni and students. This sentiment is not developed alone by the contact of student and professor in the class room. It is more likely to be unconsciously stimulated by proper surroundings. Attractive buildings, fine landscape effects, trees and massed shrubbery, memorials, etc., everything that stimulates our sense of beauty, that excites to self-respect and quickens the better impulses of our nature, has not only an educational value for the student, but is developing a strong bond of attachment for the place. It is this feeling which must be shared by Professor and student before a College or University can attain a full measure of success. If all the Departments in this and in other Colleges of the Uni-

versity would take a genuine interest in the proper adornment and orderly care of the whole University estate much more can be accomplished in the future than has been done in the past.

In regard to a new building for the Departments of Forestry and Horticulture, I have no new pleas to offer, and it seems unnecessary to repeat those already urged. I would repeat them and extend the statement and arguments if I thought I should be heard for my "much speaking." The necessity for better Class rooms and laboratories, of better provisions for housing much valuable material now on hand, and making it possible to collect and preserve more, is indisputable. We ought to have a building in which the products of Ohio forests and the art of forestry in some of its phases could be exhibited in a public way for the benefit of the citizens of the State.

Speaking for the Department of Forestry alone, there are a number of points that might well be observed in the construction of this much needed building:

(1) It should be finished with *Ohio woods.*

(2) It should be made as near fire proof as possible.

(3) It should express in itself its purpose and furnish one more, of all too few examples on the University grounds, of a building properly constructed, heated and ventilated.

In regard to the first point it is only necessary to say that our own State can furnish as fine a quality of building material as any state in the Union.

The Forestry building should be a sort of memorial representative of these rapidly disappearing woods.

All of the leading varieties should find place in its construction.

I have but little doubt that if the matter was properly presented, the aroused public spirit and business sagacity of our lumbermen would make it possible for us to secure the best building woods of the State on unusually favorable terms. A spirit of rivalry or emulation might be excited as to finishing or furnishing certain parts or finding a place in such a building, for it would form a conspicuous and permanent advertisement of the material used in it.

The claims made for this Department in previous years are no less forcible now than in the past. Next to a new building our greatest need is one or more demonstration forests in the southern part of the State. I trust, therefore, that you will join me in urging this matter before the proper authorities."

HORTICULTURE

Professor Paddock reports:

"There have been notable increases in the number of students taking Horticulture 118, the Winter Short Course, and in 101 and 102. There has been an apparent falling off in 105 and 106, but this is due solely to a change in schedule. We are looking for a large increase in students next

year and base this prediction on the number of young men who have been in to talk with us about making changes in courses or in taking Horticulture as a special line of work.

The question of what to do with our increasing numbers is becoming a serious problem. We need rooms for classes and for our laboratory. We are also very much in need of greenhouses and a cellar. A medium sized cellar arranged so that the temperature can be controlled by use of cold air would not only be of use to us, but would be a splendid illustration of what may be had upon any farm, and should be of considerable interest to our students and visitors. I have already submitted data regarding the cost of greenhouse construction and have likewise mentioned the possibility of making further changes in the interior of Horticultural Hall.

Among the many improvements that are being provided in the Department, I may mention, is the Irrigation system, which is composed of three parts: Skinner Irrigation, Furrow Irrigation and Sub-Irrigation. Similar plats will be grown under the three systems, as well as some check plats, and the data obtained cannot help but be very interesting as well as valuable. A small canning plant has also been recently added, which will be useful this fall in laboratory work, and possibly to a limited extent in a commercial way. Another notable addition to our equipment is Life History Riker Mounts of our more common garden and orchard insects and diseases. They have proven to be extremely valuable during the semester just closed, as material for class room work."

METEOROLOGY

Professor J. Warren Smith reports on the work in Meteorology as follows:

"Beginning with the present year the course in meteorology was extended from a one term course to a full year course. The work of the first semester is required in the junior year. It is elementary in character and the text book used is Moore's Descriptive Meteorology. The text book is far superior to that formerly used, and the longer time given to the subject allows for much more satisfactory instruction. Forty-seven students took the course this year, the number being somewhat higher than the average. Two hours a week is the time given.

Twenty-seven men elected the course in the second semester, which is fully twice as many as I had anticipated. About one-third of the time was given to a study of climatology and methods of utilizing the work of the weather bureau and a study of weather conditions. The balance of time was devoted to a study of the effect of weather conditions upon different crops. Some of the subjects were taken by two men, but there were eighteen different topics taken up by these young men and the effect of weather conditions was very carefully investigated, the results being given in class.

Personally, I am highly gratified with the result. Some of the men who were somewhat indifferent at first are now anxious to push their investigations farther. Some are taking work home to take up during the summer. Mr. Sam Higginbottom was saved the time and expense of a trip into the Southwest by his investigations, and he tells me that he believes there is no more important problem before the agricultural investigator today than this—and one that will produce such beneficial results.

Each man kept a copy of his paper and made a copy for my use, so that now we have material in hand for a preliminary investigation of the weather effect on our main crops. I shall put each paper into such shape that it may serve as a starting point and foundation for further investigation by the class electing the course next year."

CONCLUSION

The most serious problem that faces the College of Agriculture at the present time is to provide for the rapid growth in enrollment. The impetus that has been given to industrial education in recent years is showing, especially in the agricultural colleges. Students from the city as well as from the country are seeking admission, and it no longer requires any argument to convince the public of the value of agricultural education.

Several of the denominational colleges of the state have established, or intend to in the near future, departments of agriculture, and the College is called upon to assist in arranging courses of study and to furnish teachers. A movement is on foot for a closer co-operation between these institutions and the various Colleges of the University. From the standpoint of the Agricultural College it is very desirable that as close a correlation of the work as possible be arranged, since many of the best students of the College come from the other colleges of the State.

The policy of leaves of absence for members of the instructional force in the University for the last few years is to apply to members of the Agricultural Faculty for the first time this coming year. The Dean of the College and the Head of the department of Forestry have been granted leave of absence for the academic year of 1911 and 1912, and the year will be spent in travel and study in Europe. It is hoped that this policy may be continued, and that each year one or more members of the faculty of this College may have this opportunity.

Professor Alfred Vivian has been appointed Acting Dean of the College for the coming year. The same loyal support and co-operation that has prevailed during the past year will insure a prosperous and successful year for the College.

Very respectfully submitted,

H. C. PRICE,
Dean.

REPORT OF THE DEAN OF THE COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

To the President of The Ohio State University:—I have the honor to submit the annual report of the condition of the College of Arts, Philosophy and Science for the year ending June 30, 1911. The year has been satisfactory in most respects and has been marked by the adoption of several new plans for the future. Chief of these plans is a revision of our group-elective system which is to go into effect in the Fall, provision for the courses in journalism, the adoption of a revised Arts-Law course and of a new Arts-Engineering course. These will be taken up in turn.

THE GROUP-ELECTIVE SYSTEM

The group-elective system under which the College of Arts, Philosophy and Science has operated since I became dean, contains features which have since been adopted in some of the older and larger institutions of the country. The new Harvard system for instance, is in its main features the same system that has been in force here for six years. Strange as it may seem, however, the evil which Harvard hopes to correct by adopting this system is precisely the opposite of that which we have experienced. Harvard complains that her students have scattered their work over too many fields. Our professors complain that our students have confined their work to too few departments. In order to prevent this, we have lately altered our system so as to compel every student to take at least one year of work in the languages, and likewise one year each in the social sciences, the biological sciences, the non-biological sciences, and in mathematics or philosophy. We provide also a maximum limit of work which a student may undertake in any one of these lines, in order to prevent over-specialization. We compel him to devote about one-half of his time during the four years to two principal lines of study, leaving him one-fourth to use as he will.

This seems to be a severe prescription, but its severity is mitigated by certain exemptions. The new feature of our system is the correlation of high school and college work. For the first time in American educational history we have attempted to make this correlation complete. We have made sure that by the time the Junior year is reached each student shall have been subjected to a certain prescribed training in all of the chief lines of study, either in high school, or in college, or in both. If for instance the student has completed an approved one-year course in a biological science in the high school, he is not required to take a biological

science in college though he may do so. If he comes with six years of foreign or ancient language in the high school he is not compelled to do so much work in language as the student who comes with less. The same principle is applied to each line of study. It is absolutely correct to assert that the College of Arts, Philosophy and Science of The Ohio State University is the first in America to undertake to study and plan the course of each individual student in the four years of high school and the first two years of college as a six-years' unit, prescribing the two years of college with a full knowledge of previous acquisitions and omissions. This correlation puts high school and college work in a real organic relation. (For course in full, with regulations, see new catalogue.)

A regulation by which Seniors who elect Freshman courses will suffer a discount of one credit hour in each Freshman course so elected is intended to discourage the beginning of new work of an elementary character so late in the course as the Senior year. It should result in a more careful planning of their four years of work, by the students.

THE NEW COURSES IN JOURNALISM

In the year 1893 and for several years thereafter the College of Arts, Philosophy and Science maintained a two-year course preparatory to journalism. During the same period it also maintained two-year courses preparatory to law and to medicine. These courses had lower entrance requirements than the four-year course. They were abandoned in the year 1896 as administrative units (though the work contained in them continued and still continues to be offered under the elective system). The reasons for their abandonment were as follows:

(1) The American Medical Association refused to raise its requirements for admission to approved medical colleges so as to give any advantage whatever to students who had completed two or more college years of pre-medical study over students entering directly from the high schools.

(2) Colleges of Law refused to raise their requirements above the minimum standard indicated by graduation from a high school. In some cases as in Ohio State University they were prevented, by law, from raising requirements.

(3) The course preparatory to Journalism was abandoned when the College of Arts, Philosophy and Science adopted the fifteen-unit requirement for admission. At that time it was urged that all courses having a lower standard should either be given up or should come to the fifteen-unit basis. The Faculty of Arts, Philosophy and Science, which has always led the way to higher standards for admission, willingly abolished its short courses with lower standards, and it is not likely ever again to provide for any course, short or long, with entrance requirements less than fifteen units.

The new courses in journalism therefore require regular admission to the College of Arts, Philosophy and Science. They occupy two hours of the student's time during the first year, two during the second year, three during the third year, and two during the fourth year. They are not available in substitution for any of the prescribed requirements for graduation; but are available in addition thereto as elective courses for those students who desire this training. That there is a demand for such courses is proved by the fact that thirty students enrolled in the year just past for the one journalistic course that was opened to them.

The following curriculum for the four years, which includes the courses in journalism and collateral courses, and which also fulfills all requirements for the degree of Bachelor of Arts, has been recommended to students interested, and has been printed and circulated under authority of the Publication Board. (See Bulletin 16 vol. 16). Doubtless many students will be attracted to this course.

In order to make the courses in journalism effective, there will be needed an expenditure of some $6000 for a printing plant, to be used as a laboratory, and to be owned and operated by the University as other laboratories are owned and operated. It will also be necessary to take over the college paper, now a weekly, and to publish it as a city daily for the University community; supplying not merely college news but also all news of the world in which intelligent university people should be interested, with such editorial comment thereon as upper-classmen can give. This program may appear at first sight to be too ambitious but the University of Washington has already realized it and the University of Missouri is in a fair way to do the same. No extra expense, above the original $6000 required for a plant, would be entailed by this program. Once the plant is started it would be self-supporting. Moreover the University would make a fair return on its investment in the following particulars:

(1) The printing of the Alumnus, the student and other periodicals could be done by the University Press.

(2) The printing of examination papers, circulars, department stationery, and special bulletins not now required by state law to be printed elsewhere could be done by the University press.

(3) The plant might in time be utilized also in certain courses in manual arts and design.

I append the estimates prepared by Assistant Professor Harrington. I recommend that the appropriation called for be provided in the budget of 1912, if the project receives the previous sanction of the President and the Board of Trustees.

THE ARTS-LAW COURSE.

The University has had for some years a six-year combined course in Arts and Law by which a strong student might win an Arts degree at

the end of his fourth year and a Law degree at the end of his sixth year. The gain of one year was made possible by crediting about two-thirds of a full year in Law towards the degree in Arts. Experience has shown that this fractional arrangement is difficult of administration. The faculties concerned have therefore revised the requirements so that the energies of the student shall be devoted exclusively to his Law studies in his Senior-Arts year. The student is now required to have completed the Arts portion of his work entirely before admission to the Law course. As this Arts portion of his work amounts to 96 semester hours, that is, six semester hours above ordinary Senior-Arts standing. It will not be available for students of poor calibre who fail in their Arts studies during the earlier years of their course. The Arts-Law course is regarded as a special privilege open to those students who have proved their ability by maintaining a good standing during three years. Moreover such students must show proficiency in the social science group of studies in which a large portion of their Arts work is prescribed. It will be necessary for students desiring to enter the Arts-Law course to plan to that end as early as the beginning of their Sophomore year in Arts. I believe that all of these provisions are necessary and sound educationally. The privilege of these combination courses should be restricted to those students about whose seriousness of purpose and full competency there is no doubt. (See Catalogue June 1911).

THE ARTS-ENGINEERING COURSES

During the year just closed the Faculties of Engineering and Arts, Philosophy and Science, have agreed in adopting combination six-year courses leading to the end of the fourth year to the degree in Arts and at the end of the sixth year to one of the degrees in Engineering. As this course is not yet in print I submit a copy of it herewith.

"This committee believes that there is need for such a course. In fact, under the existing requirements for the two degrees a student occasionally arranges such a course for himself. It will be found by consulting the last edition of the alumni register that more than twenty of the graduates of the College of Engineering have in addition to their engineering degree, a bachelor's degree from some Arts College. It was thought that this might be done more frequently if the way were pointed out by suggesting an arrangement of subjects which would save the student some time.

Upon investigation, it was found that each of the courses leading to a degree in the College of Engineering contains at least sixty semester hours which are, in limited quantities and on petitions in every case, accredited in the College of Arts towards the degree of Bachelor of Arts. Theoretically, therefore, it is possible for a student to complete the requirements for the A. B. degree and any engineering degree in six years. Practically, this is barely possible except in the case of the A. B.

degree and the degree of Bachelor of Science in Chemical Engineering, which combination has been obtained in five years.

This appeared to the committee to be conferring two degrees for too much common work, especially where the two degrees are supposed to stand for essentially different lines of work.

The committee attempted to devise a six year combination course, three years to be done in the College of Arts and three years to be done in the College of Engineering. This seems to be in accordance with the practice of our best institutions including Cornell, Columbia, University of Illinois, University of Wisconsin and others. We, therefore, recommend the following requirements for a six-year combination Arts Engineering course:

The entrance requirements for the combined course should be the same as for the College of Arts except that one unit of Physics is required.

A candidate for the degree of Bachelor of Arts, while registered in the College of Arts, Philosophy and Science, may also register in the College of Engineering, provided that at the time of seeking such registration in the College of Engineering he has ninety semester hours to his credit in the College of Arts, Philosophy and Science, exclusive of the credit hours in Military Drill and Physical Education, and including the following subjects:

Mathematics, 131, 132, 141, 142	20 hours
Chemistry, 105 and 106, or 109 and 110	8 hours
Modern Language, French, German or Spanish	16 hours
English, 101 and 104	4 hours
Social Science	6 hours
Biological Science	6 hours
Physics, 113 and 114	10 hours
Engineering Drawing, 101 and 102	5 hours
Arts Electives	15 hours
	90 hours

Eighty semester hours of the above work shall be exclusive of those subjects published in the appendix of the Arts College bulletin.

When the candidate has obtained 124 semester hours in the two colleges exclusive of Military Drill and Physical Education, 100 semester hours of which shall be subjects accepted by the Arts College and exclusive of those published in the appendix of the Arts College bulletin, the candidate shall receive the degree of Bachelor of Arts. This will ordinarily be at the end of one year's residence in the College of Engineering. At least six semester hours, other than Mechanics, of the above mentioned 100 hours, must have been earned during the first year of residence in the College of Engineering. At the end of two more years by doing the regular amount of work, the candidate will have completed the requirements of any one of the Engineering degrees, and will be recommended for the appropriate degree.

We further recommend that Mechanics 101, 102 and 104 (5, 5 and 2 hours respectively) be included in the list of courses giving credit towards the degree of Baachelor of Arts."

An incidental advantage of the Arts-Engineering Courses is that the student is first enrolled in the College of Arts, Philosophy and Science. If he fails in the mathematics and science fundamental to Engineering he may shift to other lines of study in Arts and Sciences for which he may be fitted, without suffering the ignominy of exclusion from a college which he never should have entered at all. Students at present enter the College of Engineering from the accredited high schools before their natural aptitudes have been fully tested. I believe that the Arts-Engineering courses may in time demonstrate the wisdom of requiring of every student a preliminary year in the College of Arts, Philosophy and Science, the same as the first year of the new Arts-Engineering courses, as a prerequisite for admission to the College of Engineering.

THE ARTS-EDUCATION COURSE

During the last two years there has been an Arts-Education course in which a student pursuing two years of work in the College of Arts, Philosophy and Science and the two years of work hitherto offered in the College of Education might after adding two summer terms of work, readily fulfil the requirements both for the degree in Arts and for the degree in Education. The College of Education has this year adopted a four-year curriculum. By reason of this fact the whole question of an Arts-Education course which all concerned had considered settled, is necessarily reopened. I hope that a wise adjustment of the courses of the two colleges may be reached. One fact forces itself upon our notice at the outset: A large number of the graduates in Arts, Philosophy and Science will inevitably become teachers; and of that large number not many will have made a choice of teaching as a profession before their junior or senior year. It is doubtful if any should be encouraged to do so. Such of the strictly professional subjects in Normal Schools and Colleges of Education as a graduate in Arts and Sciences should have studied in preparation for teaching his specialty can be compassed in the last year of his undergraduate course, as part of his work for his degree in Arts. In accordance with the arrangement that has hitherto prevailed between the colleges of this university, it would seem that this principle should be observed in the coming adjustment of relations between the College of Education and the College of Arts, Philosophy and Science, and that no student should be excluded from any class for which he is prepared if the subject studied in that class is closely germane to his course.

THE FUTURE OF THE COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

The College of Arts, Philosophy and Science enrolled during the year just closed 865 members. For the first time in its history it enrolled more students than any other college of the university, the College of Engineering having led hitherto in numbers. It would be to the advantage of the whole university if the ideals of the College of Arts, Philosophy and Science should continue to be supported with a marked emphasis of members. One function of a College of Arts, Philosophy and Science is to stand for the essential worth of learning and culture, as against the overwhelming spirit of commercialism that has taken possession of American education. Another is to enable students to find out for what special work they are probably best fitted, and to direct their preliminary studies accordingly before the professional aim becomes the principal aim with them. It is true also that the development of graduate study is next to impossible if an institution lacks a strong undergraduate colleges of Arts and Sciences. Witness Johns Hopkins and Clark Universities, which beginning as purely graduate and professional schools were compelled later to supply each an undergraduate college as a feeder. The problem of maintaining a successful College of Arts, Philosophy and Science exists nowhere except in those universities that permit their technical and professional schools to attempt the double role of providing a sufficient general education and a full professional education in the same four years. This brings the technical and professional colleges into competition for students with the College of Arts, Philosophy and Science and so far invades its legitimate work. It has also the reciprocal effect of inducing the latter to undertake various forms of highly specialized work, almost professional in character. The inevitable result is a loss of clear perception of educational values and purposes. The public of course will generally accept the opportunity of professional training on the cheapest terms of preliminary education offered by any respectable educational institution.

The future of our College of Arts, Philosophy and Science is assured if the evils above referred to can be outgrown. Two steps have been taken, however, during the present college year, that may result in injury. To the first, the extension of the College of Education to a four-year college, I have already referred. The second is the assignment of certain departments by the Administrative Board to the jurisdiction of the deans of the technical schools. In discussing this matter it should be remembered that the College of Arts, Philosophy and Science was created in the year 1895 by uniting two schools, (1) the Schools of Arts and Philosophy, and (2) the School of Science. The School of Science included the departments of Anatomy and Physiology, Astronomy, Botany, Chemistry, Geology, Mathematics, Physics, Zoology and Entomology, and Mineralogy. These departments have never since the foundation of this

University been administered by the special and professional interests represented in Engineering, Agriculture, Pharmacy, and Veterinary Medicine. To commit any one of these departments to the final direction of such interests would be not only at variance with the traditional policy of this institution but also at variance with the purpose of the University to develop higher and graduate work at this institution. While these sciences should faithfully serve the narrow practical needs of Agriculture and Engineering to the full extent demanded by the Faculties of those colleges, they should be administered in the larger spirit of serving the cause of science for its own sake. To commit any of these departments to the direction of a College of Engineering, Agriculture, Pharmacy, or Veterinary Medicine means in time an injury to force research in these sciences and the restriction of research to pre-determined professional objects. Thus far in the history of the Ohio State University practically all of the graduate work in these departments has been done in the College of Arts, Philosophy and Science, under conditions of academic freedom. Practically no graduate work has been done in the other colleges of the University, owing to the close prescriptions of their undergraduate courses and the professional and practical ends in view. This condition must continue inevitably, since these colleges are essentially professional. The University, under recent action in sanctioning the assignment of all of the sciences excepting Bacteriology, Physiology and Geology, to the technical and professional colleges, while at the same time attempting to establish a Graduate College, presents the curious spectacle of defeating its own projects at their very inception. So far as I can ascertain there is not in this country or Europe a state university having a faculty of Arts and Sciences that puts the pure sciences under the final direction of colleges of agriculture and engineering, excepting the Ohio State University. So far as I can ascertain, there is not a state university in this country or in Europe that puts Psychology under the final direction of a college of education, excepting Ohio State University. The numerical basis on which the assignment of the sciences was recently made by our Administrative Council seems to me to embody no educational principles. It seems to me that it will tend to an unsymmetrical development of the departments concerned and will over-emphasize the technical. I do not predict any immediate bad effect except so far as graduate work in pure science is concerned. I believe that the smaller institutions of Ohio will not send their students to us for work in pure science so willingly under the new organization as under the old. The timeliness of this protest may be doubted, since the division has been made, for the coming year at least. I have thought proper however to call attention to the matter since the wisdom of the Council in its recent action has already been questioned in the Faculty of the College of Arts, Philosophy and Science, and I desire to go on record as having opposed to the extent of my ability a policy which may

ultimately result in the detachment of the sciences from the College of Arts, Philosophy and Science.

NEW PROFESSORSHIPS

There is a growing feeling in the University that the time is ripe for the establishment in the College of Arts, Philosophy and Science of a Professorship in Music and a Professorship in the history of the fine Arts. As elements of general culture these subjects are acknowledged to be necessary for the well-being and higher enjoyment of mankind. The aim of such work in a College of Arts, Philosophy and Science is not to produce artists but to produce appreciators and intelligent enjoyers of the Arts, just as the aim of the literary courses is not to produce makers of literature, but to open up new realms of thinking and enjoyment to all who are capable. The chief business of a Professor of Music is to give the instruction necessary to enable people to understand the masterpieces of music and to expound the meaning and intent of these. The chief business of a professor of Fine Arts is to do the same thing for architecture, painting and sculpture. This particular work is already being cared for by our Professor of Greek. Doubtless such a professor of music would also be interested in encouraging such native talent as came to his attention. Doubtless he would foster and guide the work of existing student organizations in music. A professor of music might also be able to serve the practical needs of the College of Education in teaching students a method of public school instruction in vocal music; but more likely another man would be required for that. In suggesting the consideration of these new appointments I desire to disclaim any intention of over-looking or of reflecting unfavorably upon the admirable art work that is already being done in the University with technical, professional and practical aims and applications in view.

Respectfully submitted,

J. V. DENNEY,

Dean.

REPORT OF THE DEAN OF THE COLLEGE OF EDUCATION

COLUMBUS, OHIO, June, 26, 1911.

DR. W. O. THOMPSON, *President of Ohio State University.*

DEAR SIR:—It is my honor to submit to you the second annual report of the Dean of the College of Education for the year ending June 30, 1911.

An increasing interest in the work of the college is shown by a growing attendance, by the cordial support given to it by the school men of the State, by the professional spirit which the students are acquiring, by the demands for our graduates for public school positions, and by the advanced work which students are seeking to do.

The registration for the four years since the organization of the College has been as follows:

1907-08	26
1908-09	46
1909-10	53
1910-11	74

The registration does not include summer term students, many of whom are seeking degrees through the college of education, and the great majority of whom are teachers.

Previous to this year, the college had granted twenty-eight bachelor's degrees and seven master's degrees. At the commencement of this year, twenty-two bachelor's degrees and three master's degrees were granted.

The statistics would indicate that the college is having a steady and healthy growth. However, the emphasis never has been placed upon numbers. Rather it has been placed upon the creation of a professional school spirit which would lead to the investigation and study of the work of the school administrator and the secondary school teacher. The college also seeks to develop a skill in the art of teaching.

Within the year a reorganization of courses has placed the responsibility for the direction of the work of the student through the entire four years leading to a bachelor's degree upon the college of education. Heretofore, the work of the first two years has been done in some other college of the University, while the college of education has directed the work of the last two years. This enlargement of the course within the college of education does not in any way modify the original policy of securing the content in knowledge needed for teaching in the early years of the

course and of introducing the professional branches in the later years. But it gives to the college of education the entire direction and organization of both the content and professional branches. It is hoped that in time there may be such a selection of instructors for the content work within the different departments that not only knowledge will be acquired by students, but also that methods of teaching will be gained. One of the serious charges made against the college graduate when he enters the business of teaching is that he brings many mistakes with him from the college class-room.

While some encouragement has been felt regarding the manual training situation, it must be admitted that there seems to be a wide variation between the demand in this state for teachers of this branch of learning and the numbers of those who are ready to take advantage of the opportunity to prepare for such teaching. Either there is a lack of knowledge regarding the demand for manual training teachers or salaries are too small to produce a supply.

This would seem to be a fitting place to acknowledge the appreciation felt by the faculty of the College of Education of the helpful service and cordial support rendered to our practice department by the superintendent of schools, by the assistant superintendent, by the high school principals, and by the high school teachers of Columbus. The authorization by the present General Assembly of a contract whereby the board of trustees of the University may lease ground to the board of education of the city for the erection of a new high school building and whereby practice work may be done upon the campus, will very greatly facilitate this work.

The one great need of the College of Education is a new building. Not a department is properly located and physically conditioned for efficient teaching. If the State of Ohio is earnestly seeking to provide trained teachers for the public schools, it should make ample provision for carrying on the work.

Permit me to express my appreciation of your good-will, counsel and advice which were needed and freely given many times through the year.

Respectfully submitted,

W. W. Boyd,

Dean of College of Education.

REPORT OF THE DEAN OF THE COLLEGE OF ENGINEERING

To the President of the Ohio State University:

I have the honor to submit herewith a report on the College of Engineering for the University year ending June 30th, 1911. For convenience, I have divided the same into topical headings.

(1) ATTENDANCE

The attendance on the first of November was 841, a decrease of about 50 from the preceding year. No cause is known for this fact, and I believe it to be merely one of those fluctuations which are occurring constantly and for which it is usually impossible to trace specific causes.

While the registration of Engineering students has been actually a little less, many of the departments of the college have been unusually congested with students. This is true of Chemistry, Engineering Drawing, Mathematics and Shopwork. These departments all have large classes of Freshmen from other Colleges and the total work to be done has therefore increased this year over preceding years.

(2) GRADUATES

The graduating class numbers 123 Engineers, representing a healthful growth of 16 per cent. over the highest previous year's output. In connection with the falling off of total engineering registration, this proves clearly that the arduous and persistent efforts of the past two secretaries in reducing irregularity of students and in enforcing due regard to sequence of studies is bearing its legitimate fruit. The student body is evidently composed of more carefully graded material with less irregular and transitory membership in it than ever before or the above result would be impossible.

(3) FACULTY

The teaching force of this College has suffered this year by the death of four of its eminent men. R. W. McFarland, first professor of Mathematics and Civil Engineering, and Stillman W. Robinson, first professor of Mechanical Engineering, had not maintained teaching relations for some years past, but their names have continued to add prestige to our faculty rolls as Professors Emeritus. N. W. Lord, Director of the School of Mines for 33 years, and B F. Thomas, for 25 years professor of Physics, have been suddenly called to lay down their burdens, and the sense of our loss is still heavy upon us. The year has been one of

vigorous work and of progress in various ways. Great interest has been manifested in the meetings of the faculty. They have never before been largely attended or so frequent, and the debates have been unusually thorough and trenchant and have resulted in an unusual amount of constructive work.

(4) REGISTRATION

The mode of registering students pursued in this College has been differentiated from the other Colleges somewhat and as we believe, for the better. Our conditions have made it appear inadvisable to entrust to the students themselves any large responsibility in the preparation of their class cards or the assignment of work. The Secretary in this college is expected to make himself responsible for each student being required to clear up entrance conditions promptly, and to pursue his work in the proper order. To that end, he prepares all cards from the records, and makes all changes. This work is done to the greatest possible extent in advance of registration day, so that the adjustments of irregular cases and settlement of petitions is the chief task on registration day. Thanks to the ability and persistence of the Secretary this system has now become remarkably effective and smooth in operation.

In my opinion there is a weak spot in our registration system which can be easily corrected. The examinations at the close of the first semester can be so scheduled and the reports so handled that the University can close on Friday and resume on Monday with no interruption whatever. This is possible, by registering for a whole year at a time and only making necessary alterations at the mid year, and by allowing the students a few days grace at that time to make these readjustments, without necessarily stopping the progress of class work for them at all. Even if the plan of a second complete registration is still insisted on, it is possible by vigorous and systematic work on the part of the executive force of each college to prepare all lists and make ready all cards and changes between Friday night and Monday morning. This has been done in this College, not once but several times, and with a considerable time margin. If general agreement between the Colleges and the Registrar could be had for the trial of this plan, there would result a still further gain in efficiency. At present, the mid year break closely following the Christmas recess unnecessarily breaks into what ought to be the best work time of the scholastic year.

(5) THE SEMESTER PLAN

After a year's trial of the Semester system the results in this College are fairly satisfactory. At least, the system has not appeared to militate against efficiency as was feared by some of its opponents. The credit for whatever favorable showing can be made, however, is not so much attributable to the semester system itself, as to the legisla-

tion (Rule 120a) adopted concurrently with it, by which mid-semester reports are required on all delinquent students and the powers of the Executive Committees in dealing with such cases are notably enlarged. The beneficial effects of Rule 120a in my opinion offset and possibly a little more than offset any disadvantage which might obtain with the use of the semester system alone.

Mid-Semester Reports. The mid-semester reports have in this College brought in for a hearing not less than 200 students. Of these some required a stern warning, others needed sympathetic encouragement, others required reduction of scholastic work, or of outside work, etc. Beyond question many were saved from failing at the end of the semester by reason of this supervision in the middle of the period. Also, by placing upon probation at the mid-semester a number of notably weak or idle or incompetent students, the number of such who would be definitely dropped at the end of the semester was increased and the classes were relieved from the incubus of their presence. The number dropped at either mid-semester by the Executive Committee was small, and consisted almost entirely of old offenders who had been given a chance to retrieve themselves and were not using the opportunity. In my opinion, the importance of the mid-semester report is not yet wholly understood or appreciated by the instructing force and efforts should be put forth this coming year to increase its importance in the eyes of all.

(6) CHANGES IN DEGREES

Bachelor Degrees. The College of Engineering has debated the question of the degree to be awarded for four years of collegiate work, with much vigor and earnestness, at various intervals for some years past, but without issue. The question was introduced early in the fall and continued as a live topic for the majority of the year. In the end, the policy of giving the Bachelor's degree for four years work, which has won such wide acceptance elsewhere, was affirmed and the Engineer's degree will not be conferred hereafter for four years work, except in the case of those classes already registered under the old arrangement. In my opinion, this step is of importance,—not because the graduate himself is rendered either more or less competent by one title or the other, but because the Engineer's degree has been rapidly coming to be recognized among many institutions as a professional degree, equivalent to a doctorate. For this College to confer the Engineer's degree as the equivalent of a Bachelor's degree arrays this College against the trend of modern thought and strengthens the claims of those who view Engineering as a craft rather than a learned profession.

Advanced Degrees. The adoption of the Bachelor's degree carries with it by implication the provision of means for students to secure the Master's degree and either the Doctor's degree or the more coveted professional degree of Engineer. The College of Engineering has

framed a set of requirements and conditions governing the granting of these degrees, which recognize the propriety of conferring the Master's degree for one full year's further academic work in residence, but refusing the Engineer's degree on the basis of academic training only, and requiring the seal of actual experience and the execution of some creditable engineering work as a condition of its being conferred. These provisions were most maturely deliberated and represent the best judgment of the faculty of the College. They have been transmitted to the University faculty, but as they dealt with questions which the proposed Graduate School of the University would ultimately have to consider, and as the same was then soon to be organized, it was deemed wise to defer action until the Graduate School was ready to take up the subject. As the matter stands, therefore, no new provisions for granting higher degrees than the Bachelor's degree exist in this College, nor has anything been done to take away or diminish the powers which we have used in the past to grant Master's or higher degrees in the usual way. I hope that this temporary hiatus in our legislation will cause no discouragement to any who may be contemplating more advanced and specialized technical study.

(7) CHANGES IN COURSES

Changes in Subject Matter. There have been but few changes made this year, following the severe changes made necessary the year before by reason of the change from the term to the semester system. Those that were made mostly represent adjustments not fully accomplished in the effort of the year before. There has been some dissatisfaction with the Educational results of the increased number of short two hour and three hour subjects made necessary by the semester plan. Many of the faculty believe that few studies in large doses are the best intellectual drill for the engineer. It is entirely possible that the dissatisfaction due to this cause will lead ultimately to some further revision and simplification of requirements.

Changes in Freshman Year. The changes in degrees naturally led to inquiry as to whether the content of courses should not receive concurrent change. In this connection, the uniform freshman year of the Engineering courses was attacked with much vigor by some of the faculty who desired to eliminate or modify the foreign language requirement with a view to laying an earlier foundation for some of their technical work. The scope of the debate was very broad and involved the whole theory of engineering education, and its relations to cultural education or speaking more correctly the relations between the specific technical course and the non-technical. In the end, the retention of required foreign language and a uniform freshman year was supported by a practically 2 to 1 vote.

Arts-Engineering Course. The foregoing debate was not without practical result, however. It led to the proposal by the College of Engineering of an Arts-Engineering course, in which a much more thorough and adequate training in general and non-technical studies would be required as a precedent to the technical and which would lead to the granting of two degrees, both in Arts and Engineering. The College of Arts met our overtures in a satisfactory way, and in the end a joint course covering six years, three years in the College of Arts, Philosophy and Science, and three in the College of Engineering, the Arts degree to be conferred, subject to certain reasonable safe-guards, at the end of the first year in the College of Engineering, which would be the fourth year of residence.

The demand for such a joint course is not strongly in evidence. There have been a number of students who have voluntarily secured both degrees without the aid of any co-operating agreement between the two colleges, and there always will be such. There should be more, with the stimulus of this suggestion and the assurance that the two colleges are mutually desirous of encouraging it. It is not likely that large numbers will make use of this arrangement however. There is no denying that the ideals of a large proportion of Engineering students are of a very practical, not to say sordid, sort. They recognize in Engineering a rapid route to financial competence and pursue it solely with that in view. Such students will not readily be diverted into the two-degree course.

The needs and demands of these two classes of students in Engineering very clearly point out the real situation. In Engineering Education today, we are making a technical training take the place of a liberal education. It is concurrent with, not superposed upon, a liberal education. Its product is in my opinion fully as keen of perception, as able in reasoning power, more likely to have a constructive imagination, than the product of a liberal course. The fixed requirements and the stiff intellectual drill of any engineering course insure a power of concentration that an elective liberal course is not likely to produce. But, while mentally quite the equal of his liberally trained brother, the average young engineer is socially far inferior. He is not as a rule cognizant of or interested in the broad questions of political and social science, or the inter-relations of men, and is therefore a specialist rather than a citizen.

While this condition persists, engineers cannot hope to have their calling recognized as of the same standing as those of the so-called learned professions. Occasionally an engineer will rise into general recognition as fit to stand with any in plane of learning, or public spirit or social leadership. But unless more liberal education precedes or is included in Engineering courses, the majority of Engineering graduates will continue to stand as they do now—somewhat below the social

status to which the amount of their intellectual training should entitle them to enter.

The Arts-Engineering course is therefore to be regarded as a step in the right direction. Its influence will be curative of the above situation. It is not to be expected that its influence can be large, in the near future at least, but it should certainly increase the number of those who represent engineering as a profession rather than an industrial art.

Co-operation with other Colleges of Liberal Arts. The arrangement of a formal scheme of co-operation with our own College of Arts, Philosophy and Science has been regarded as a necessary precedent to another and more important project, viz., co-operation with the Colleges of Liberal Arts of the entire State and elsewhere. The State University will never assume its proper and rightful sphere of influence in the State until it is in active co-operation with every educational institution in the State, high or low. The provision by the State of equipments for the training of men and women in all of the branches of technical and professional education—equipments far larger and more comprehensive than private institutions can possibly be expected to provide—makes it not only logical and proper but also incumbent upon us to encourage other institutions to make use of these facilities. The early work in Mathematics, Physics and Chemistry can very often be done as well or better in other schools than in our own crowded classes and laboratories, and the cultural work certainly can. By offering clear-cut modes of co-operation to other schools——by which they may with self respect still place their degree upon their product and still help them to get under more favorable circumstances the technical and professional work which they must ultimately have, this institution will be making a long stride towards that leadership which it ought to hold. The College of Engineering is anxious to have these co-operating agreements with other Ohio Colleges ratified as fast as is consistent with security. It hopes by this means to fill up its upper classes with desirable material without increasing the already large proportion of freshmen.

Combination Engineering Courses. Better facilities have also been arranged for those who desire a broader industrial or technical training, as opposed to the more advanced and specialized work leading to the higher degrees. The inter-relations of various fields of engineering are such that knowledge of two are almost necessary to Engineers who look forward to consulting work or the attainment of real prominence in even one field. Heretofore, when young men have desired to take degrees in two engineering courses, they have had all the adjustments to initiate themselves and it has usually taken a year longer than really should be necessary. The Faculty has this year adopted a provision for so-called combination courses, which permit the taking of two Engineering degrees in the minimum time possible. Substantial concessions are promised in the work not common to the two courses. No second

degree will be conferred for less than thirty semester hours work in excess of what is required for the first, and in many cases more than that will be necessary. This step is believed to be a very real advantage to our organization.

Industrial Arts. The four year course in Industrial Arts has been dropped and the degree withdrawn. This step was taken after a very thorough trial of the proposition. A long term of years had failed to attract or build up any well defined clientele. The feeling of the faculty was that it was too similar to Mechanical Engineering to attract from that class and too similar to the professional field of Manual Training, recently transferred to the College of Education, to attract from that group, and that the special work which was offered could be given as electives in Electrical and Mechanical Engineering and Architecture better than by maintaining the machinery of a course and a degree.

Short Courses. Another change, this time in entrance requirements, promises to affect very strongly the status of the short courses in Clay-Working, Mining and Industrial Arts. The industrial conditions which existed twenty or thirty years ago in the mining industry provided a class of men to whom the short course of mining was a welcome opportunity. They embraced it eagerly and many prominent miners of today represent only the training of this course. But these conditions have largely changed through the introduction of machinery and the use of power, and the call for the course has dwindled steadily during the past ten years. The Clay-Working industries were expected to provide a parallel class to the miners but they have never done so. The candidates for this course have seldom come from the ranks of the proficient practical young men who knew their work and wanted training in the theory. They have largely been those who had not much practical knowledge and not enough education to enter the four-year course. The Mechanical industries have also failed to send in any large numbers of intelligent young artisans who want training in the mathematics, physics and graphics of their industry. The applicants have been more often immature boys who have left high school and are unwilling to return and who really use the course as a mode of preparing for entrance to the four-year courses.

In view of these situations, the faculty has this year changed the requirements for admission to include *two* years of consecutive practical experience of satisfactory character in some industry related to the intended course. It is thought that this provision will limit the applicants to those who really represent that class for which the courses were provided. If a few years demonstrates that there are not enough of this sort to justify the courses, they will probably be withdrawn.

(8) ENGINEERING EXPERIMENT STATION

We have taken up for serious consideration the modes by which the College of Engineering may be brought into closer touch and more organic relations with the mineral and manufacturing industries of the State. In our opinion the duty of a State University to the people who support it is not confined to the training of the youth of the state. It involves two other duties—the duty to bring new knowledge into the world by original scientific researches and to show the people of the state how to use and apply the knowledge already in our possession. This conception of the function of a State University is based upon the principle of economy and efficiency in the administration of public business. Beyond question, every commonwealth needs a place where its rising generation can secure technical, industrial and professional education. Beyond question, every commonwealth needs expert advice in making the correct use of its resources and in choosing the industries it is best fitted by nature to support. The men who can teach efficiently in such schools, must in the nature of the case be able to serve in the other capacity also;—the use of their powers as technical advisers to the public and to private interests in itself is the most effective mode of improving their value as teachers. The two functions supplement each other.

In Ohio, the State has made some use of the expert knowledge of its University corps, but not nearly as much as in some other states, nor as much as is desirable. The faculty of the College of Engineering are animated by a sincere desire to be of greater use to the State. There are two things now more or less discouraging to their aspirations. *1st.* In most cases, the time of the instructional staff is so taken up with routine teaching that they cannot pursue research or other public work to any extent. *2nd.* No recognized machinery exists to bring them in contact in the particular industrial and engineering problems of the state, or for encouraging the people of the state to come to the University for aid.

In other states, these troubles are met by the organization of Experiment Stations, for the maintenance of which the state makes appropriations. The station provides substitutes for part time or full time for an instructor who may be needed to work on some problem for which he is the most suitable. It provides laborers, skilled and unskilled, to carry on the places of instructors who supervise researches. It provides special apparatus and equipment and arranges for co-operative researches between manufacturing plants and the University laboratories. It provides a regular channel for the publication and dissemination of the results of these studies to those who read and want them.

It is our desire and purpose, subject to the approval of the President and Board of Trustees, to bring about such conditions in this College of Engineering. Our plans are to use the next two years in preparing examples of the kind of work we are now equipped to do, which we

think will be of public interest, and in distributing this matter among the state's manufacturers and engineers. These samples must come from investigations made already, or from such as can be carried through in the limited time and with the still more limited funds available in the several departments. It is believed that each engineering department can, by an effort, prepare at least one such research and that the Publication Board can assist us to put them out in creditable form. With this material, we believe that a sufficient interest can be aroused to bring a movement from the industries of Ohio upon the Legislature insisting upon adequate provision for the continuance and expansion of such work.

EDWARD ORTON, *Dean.*

REPORT OF THE DEAN OF THE COLLEGE OF VETERINARY MEDICINE

JUNE 15, 1911.

To the President:

Pursuant to your request I have the honor to submit herewith a brief report of the work of the College of Veterinary Medicine for the year 1910-11.

GENERAL REMARKS

Generally speaking, the past year has been a most successful one for this college which is now, in point of attendance, the largest university veterinary school in the English speaking world. This remains true notwithstanding that the requirements for admission to the college are higher than at any other American veterinary school, save Cornell University where these requirements are set by a state law. Judging from the reports of visitors from both America and Europe, the college has gained an enviable reputation, and is now recognized as one of the "standard" institutions of veterinary medicine. Through the generosity of the people as expressed through the state legislature, the facilities and equipment have been much increased during the past year, and the Faculty greatly strengthened by the addition of teachers of experience, nearly all of whom devote their whole time to the work. I feel, therefore, that the success of the college is assured, and that it has been placed upon a firm and permanent basis. While what is here now is but the nucleus of what will be here in years to come, it compares favorably with the best schools devoted to similar work.

CHANGES IN THE FACULTY

Since my last report, Dr. John H. McNeil, late dean of the Division of Veterinary Medicine of the Iowa State College, was chosen to succeed Dr. D. H. Udall, who resigned to accept a position at Cornell University. Dr. McNeil has charge of the work in surgery and obstetrics as applied to large animals, and is director of the Veterinary Clinic for these animals. Besides being an experienced and competent teacher, Dr. McNeil is a most devoted disciple to duty, omitting to do nothing which might better fit him to fill his position. He is a surgeon of international reputation.

During the past year Dr. A. G. G. Richardson, a graduate of Cornell University and of the University of Pennsylvania, and for thirteen years a veterinary inspector in charge of the Bureau of Animal Industry, and

later Professor of Veterinary Medicine in the University of Georgia, was added to the teaching staff. Dr. Richardson has already proven himself a valuable man, and an inspiring and popular teacher. Although handicapped by the fact that his laboratories in the new Clinic Building are not yet equipped, he has labored diligently to get results. Besides teaching general pathology, parasitology, and meat inspection, he has conducted during the year over one hundred post mortems, some of them of unique interest, and all of them of great practical value to the students.

Dr. F. B. Hadley, assistant professor of veterinary anatomy, resigned in 1910 to accept an associate professorship in the University of Wisconsin, and Dr. F. A. Lambert (Ohio State '10) was chosen to succeed him. While Dr. Lambert's teaching experience had been limited, the work in anatomy did not suffer by the change. What was lacking in experience was made up for in splendid ability and unusual capacity for work.

Dr. J. H. Snook was appointed, since my last report, assistant in veterinary medicine, and assigned to the clinic for small animals in charge of Dr. Brumley. Dr. Snook has shown himself to be an indefatigable worker and a most excellent teacher. Besides his regular work, he assisted in instructing a large class of senior students in practical operative surgery and in ophthalmology. While the last two subjects were not originally included in the scope of work he was appointed to perform, his enthusiasm as a teacher led him to volunteer to devote his extra time to this work.

Dr. R. A. Scothorn (Ohio State '10) was made assistant in veterinary medicine during the past year, and assigned to assist Dr. McNeil in the clinics for large animals. Although just from the student ranks he acquitted himself with a reputation for good work. He resigned at the end of the year to enter more lucrative employment.

During the past year a division of the work in pathology into pathological histology and gross pathology was affected. Experience has shown that where one man attempted to cover this whole field, the microscopical work occupied so much of his time that little of it could be given to gross pathology. Dr. Richardson took up the work in gross pathology and the pathological histology was assigned to Dr. Ernest Scott, Professor of pathology at Starling-Ohio Medical College, who has taken up the work in a most efficient manner. The new arrangement, dividing the pathology into gross and microscopic is working well.

BUILDINGS

Since my last report there has been erected on the campus a Clinic Building, at a cost, when fully equipped, of about one hundred and twenty-five thousand dollars. This building was especially designed to emphasize the practical side of veterinary medicine. It has proven a great boon to the college, and is considered one of the best buildings of

its kind in the country. Dr. Grueber, who was commissioned by the Russian Government to inspect American veterinary institutions, and who recently visited this one, states that the small animal department (the only part of the building as yet well equipped) is the best he has seen anywhere, although he has traveled extensively inspecting veterinary schools both in American and in Europe. This may be taken as an index of the adequacy of the building when fully equipped.

CLINICS

The clinics held daily in the Clinic Building are steadily increasing. During the past academic year there were presented for treatment 2199 patients, 1376 of which were large and 823 small animals. This increase in the number of patients treated (301 more than last year) is not only of decided advantage to the student learning to apply his theoretical knowledge, but also to the department partially supported from the fees received of the owners of the animals.

ENROLLMENT

The number of students in the college has been gradually growing for the past ten years. During the academic year of 1900-01 there were twenty-seven students matriculated. During the past academic year 184 students were enrolled. The above figures do not include students in dairying and agriculture, having required an elective work in this college. Until the fall of 1910 students from the graded schools were admitted to the college and permitted to take the course with students entering from the high schools. At graduation the former were granted the title and certificate of Veterinary Surgeon. This practice has been abolished, and the entrance requirements have been raised to eight units of high school work. Before long the requirements will undoubtedly be raised to thirteen-fifteen units. Theoretically, the high requirement should bring us a better grade of students, although for a time the numbers would be reduced.

THE ALUMNI

The alumni of this college have been generally successful. Of the 276 graduates, 137 hold official positions as teachers, experimentalists, inspectors and veterinarians in the civil and military service of the government. Most of these positions have been secured through competitive examinations. Ninety percent of the gradutes remaining are engaged in active veterinary practice. But a small number have left the veterinary profession and entered other fields.

ORIGINAL RESEARCH AND PUBLICATIONS

While the lack of facilities and assistants make original research secondary to routine teaching in this college, the members of the Faculty

have labored to accomplish something in the way of experimental medicine. Dr. Sisson has contributed invaluable data concerning the anatomy of the domesticated animals, Dr. Brumley some investigations concerning the etiology of dog distemper, and Dr. McNeil toward perfecting the operation for the relief of so-called roaring in horses. Besides this research work, members of the Faculty have been working at book writing. During the past year Dr. Sisson's text book of Veterinary Anatomy appeared. This book is a classic and represents nearly twenty years of labor. It has already been adopted by nearly all of the twenty veterinary schools in countries where English is spoken. Dr. Brumley is engaged in writing a text book on the diseases of small animals, and the Dean a work on the diseases of large animals. These books, including Dr. Sisson's will form three of a series of seven text books edited by Professor Adams of the University of Pennsylvania and published by leading Philadelphia publishers.

It shall be the endeavor of the Veterinary Faculty to raise the standards of the college from the standpoints of both investigation and instruction, to the level of the most recent advances in biology and medicine, so that the young men who go out from its doors each year are better qualified to deal with those diseases that threaten and depreciate a live stock industry approximating in the United States alone a value of $5,138,586,000, and which too often form a menace to the health and life of human beings.

Respectfully submitted,

DAVID S. WHITE,
Dean.

REPORT OF HIGH SCHOOL VISITORS

COLUMBUS, November 8, 1911.

PRESIDENT W. O. THOMPSON,

DEAR SIR:—The following report of the work of the High School Visitors is submitted in response to your verbal request:

In September, 1908, when your present High School Visitors entered upon their duties there were 246 schools on the classified lists of the University of which 128 were accredited and 118 recognized. In September 1911, the number of accredited schools was 170 and the number of recognized schools was 179. Total 349. The increase in three years is therefore—Accredited, 42; Recognized, 61. Total 103.

The distinction between accredited and recognized schools was originally based on the number of units given by the school and available for entrance credit under the rules. This basis of distinction, however, had become practically obsolete because for more than three years there have been no high schools that were up to the standards as to qualifications of teachers, equipment, etc., and that at the same time had a course of study offering fewer than the fifteen units required for admission to all courses of the University. In other words, we have found no three-year high schools whose work and equipment are satisfactory. A precedent had been established during Professor Boyd's administration of the office of Visitor, to classify, as "Recognized" those schools whose organization, equipment, and teaching force, while creditable and worthy of the confidence of the Entrance Board were clearly not quite up to such a standard of excellence and efficiency as would entitle them to be ranked in the same class with the best.

Your present Visitors with the consent of the University Faculty followed this precedent, and continued the classification according to the basis of distinction just indicated. This has been done in the belief that many schools that were not realizing their full possibilities would, when classified as "Recognized," continue to strive for further excellence and efficiency through the desire to obtain a place on the accredited list, whereas if they had been classified as "Accredited" as soon as they reached the minimum conditions entitling their graduates to admission on certificate, their communities might remain satisfied with their condition and cease to strive for greater excellence.

Three years of experience in the use of this incentive to effort have convinced your present Visitors that the maintenance of two grades of classification based on relative excellence and efficiency in all the

phases of organization, equipment and work does exercise a continuous and effective influence toward the improvement of the weaker schools and also towards a maintenance of high standards in the best schools. A place on the accredited list of the Ohio State University has come to be looked upon as a kind of hall mark indicating that the school thus labeled has attained and is maintaining standards of quality and of work that are recognized everywhere among school experts as characteristic of schools that are fulfilling the ideals established by the demands of the time. In proof of the fact that the present classification and its interpretation has had the effect mentioned, it may be noted that during the past three years 26 schools have been advanced from the recognized to the accredited list. Furthermore, a number of accredited schools, which from various causes had retrograded somewhat, have brought themselves up to standards again with all reasonable expedition rather than be dropped to the recognized list. Some 10 schools on both lists have been dropped after due warning and revisiting because the quality of their work did not seem to the Visitor to entitle them to the privileges and honor thereof, but in most cases the warnings and advice have stimulated such schools to make the improvements that were urged and to remain on the list. In other cases schools that have been dropped from the list have rehabilitated themselves and have been restored to their places. At least two cases of this kind have occurred.

In this connection it is worthy of note that the moral pressure that can be brought upon the schools is very strong in places that are not far removed from one another. In the first place, if a community is backward in school sentiment and ideals, and therefore fails of recognition by the University, and if at the same time the schools of other towns have earned and received a place on the list, local rivalry furnishes a strong incentive toward bringing the backward schools into line. In the second place, the school that is accredited and given a good rating is sure to attract a considerable body of tuition pupils from neighboring townships. Since the tuition from such pupils furnishes a considerable revenue there is strong competition for it among neighboring schools and all are apt to vie with one another is meriting a good rating from the University in order to attract such pupils and secure the revenue.

The fact that such strong pressure can be exerted in this way places a heavy responsibility on your Visitors and makes them feel a strong obligation to be just, fair and sympathetic in their observations and judgments.

They have tried consistently and constantly to bear in mind that the schools exist for the benefit of the children of their respective communities, and are not primarily fitting schools for this or any other University. They have, therefore, sought to make it clear to school authorities and teachers everywhere that their greatest desire as representatives of the State University is to give what they may of their

knowledge, experience and influence in helping the schools to realize in themselves the best service to their own communities. Hence, while they have held up to view the right of the few to preparation for a higher education and have emphasized the leavening value in the school of the ideals of these few, they have also urged for the many who go direct from the high school to vocational pursuits their right to such training as will best fit them for their careers.

From what has been said, it will be seen that one of the strongest ideals that your Visitors have set before themselves has been to exert a stimulating and helpful influence on the schools. They have tried sincerely to study local conditions carefully and sympathetically and to hold up the hands of the superintendent wherever such official was found to be ambitious to build up the schools and willing to avail himself of their assistance.

In a score or more of cases, your Visitors have helped superintendents and school boards to bring before the people the need of a new and modern building, with adequate provision for future expansion. In very many places they have helped in the securing of more and better educated teachers, of better equipment, better courses of study, better sanitary conditions, and more artistic surroundings.

They have also done much to influence teachers of some experience, but of inadequate scholarship, to go back to the various colleges where they have partly finished their courses, and to complete the work for their degrees. Others they have encouraged to attend University summer terms in order to get more special preparation in the subjects they were teaching. They have also used their influence wherever possible to encourage professional reading among teachers.

Another function which your Visitors have been able to perform is that of assisting superintendents to find teachers having the qualifications for special and definite positions, and in assisting able and faithful teachers to get higher positions. In doing this they have recommended graduates of many of the other colleges in the State as well as those of Ohio State. Among the weaker schools the tendency is to employ teachers without adequate education and to limit the school year to the minimum length allowed by law. The policy has been to refuse to recommend such schools for recognition and to warn such schools already on the list that recommendation for continuance would be withheld unless the school year was increased to thirty-six weeks, and competent teachers employed. In many cases the influence thus exerted has produced the effect intended and a better educational sentiment has been built up. In dealing with individual schools they have also taken into account the necessity for leniency toward those school systems that are temporarily embarrassed by the 1% tax limit.

Your Visitors have taken great care not to push the interests of the State University to the detriment of other institutions that hold to

accepted standards of work. They have uniformly advised that pupils and teachers desiring college work should avail themselves of the opportunities afforded by institutions in their own vicinities, and should come to this University only for such work as they were not able to get equally well elsewhere.

Very respectfully,

GEO. R. TWISS,
F. B. PEARSON,
High School Visitors.

REPORT OF PUBLICATION BOARD

DR. W. O. THOMPSON, *President Ohio State University,*

DEAR SIR:—The following report of the work of the Publication Board covers the year ending June 30, 1911. Former reports were for the year ending October 1st, but it was thought best to change the date, so that the report would cover the regular University fiscal year.

Permit me to remind you that my appointment as Editor was effective October 1, 1910, hence one-fourth of the time covered by this report was prior to my term of service. Owing to this fact, no radical changes were made in the general system that I found in operation in the Editor's Office, with one exception that I shall mention later.

The requests for the names of juniors in the high schools of the State were sent to the Superintendents and the responses received were cordial, but only about one-half replied to the inquiry. The names received, however, gave us a splendid list of prospective students who appreciate receiving the bulletins. I think the plan should be continued.

The publications issued during the year included practically the same as have appeared in former years.

The Weekly Calendar is the only notable exception. This publication was started November 19, 1910. Twenty-eight issues of 250 copies each were published. The purpose of the Calendar was to supply a medium, having proper University authority, through which announcements could be made of the meetings of various societies and student organizations as well as special lectures and other events that should be given prominence in our University life.

The popularity of the Calendar was manifested at once by the hearty co-operation of students and instructors in furnishing notices for publication. The bulletins are posted in all the buildings and mailed to each member of the instructional staff and to all administrative officers.

Two special departmental bulletins were published. One entitled "Horticultural Opportunities" was issued in the interest of the Department of Horticulture, the other, "Training in Journalism" was in the interest of the new work in journalism offered by the Department of English.

STATISTICAL TABLES

The following table gives the number, size and cost of the various bulletins paid for out of the Publication Board Fund.

The Miscellaneous table shows the bulletins paid for out of other funds.

JULY 1, 1910 to JUNE 30, 1911

COLLEGE BULLETINS

Number	*Bulletin*	*Pages*	*Cost*
8,500	College of Agriculture	84	$281 25
7,500	College of Arts	96	308 50
5,000	College of Education	74	198 75
6,000	College of Engineering	92	105 00
7,500	College of Law	48	78 00
5,000	College of Pharmacy	40	50 00
5,000	College of Veterinary Med	48	106 00
44,500		482	$1,127 50

CATALOGS AND ANNOUNCEMENTS

5,000	General Catalog	429	$528 00
1,500	Outline of Courses	118	40 00
2,500	Time Schedule	36	94 50
4,000	Entrance Information	24	27 00
1,250	University Directory (October)	66	107 50
750	University Directory (February)	71	68 50
6,000	Comm. Week Program	8	25 00
21,000		752	$890 50

SCHOOLS AND COURSES

12,500	Summer Session	48	$106 00
2,000	Lake Laboratory	16	14 50
2,500	Dairy School	12	34 00
12,000	Winter Course	16	105 00
3,000	Graduate School	90	211 50
32,000		182	$471 00

SPECIAL ANNS. AND VIEWS

5,000	Bus. Adm. & Soc. Serv	36	$44 90
1,500	Itin. Eng. Insp. Trip	48	56 00
3,000	Vet. College Views	32	63 00
4,000	Agr. College Views	16	62 50
10,000	University Views	32	266 95
1,500	Courses in Journalism	12	7 80
25,000		176	$501 15

CIRCULARS

2,000	Spec. Anns. Sum. Session	4	$9 50

CALENDAR

28 Numbers of Calendar (250 copies each)	$147 00

QUARTERLY

Number		*Pages*	*Cost*
5,500	Vol. 2, No. 1 (July)	64	$330 00
3,000	Vol. 2, No. 2 (Oct.)	40	127 57
1,250	Vol. 2, No. 3 (Jan.)	40	120 00
1,500	Vol. 2, No. 4 (Apr.)	36	118 75
11,250		180	$696 32

MISCELLANEOUS

2,500	Student Rules and Reg. (Incd.)	46	$65 65
2,500	Comm. Day Pgrs. (Comm. Exp.)	24	71 75
2,500	Baccalaureate Serv. (Comm. Exp.)	4	12 75
7,500		74	$150 15

PAID FOR FROM AGRICULTURAL EXTENSION FUND

REGULAR BULLETIN

Number	*Month*	*Pages*	*Cost*
25,000	September	16	$183 00
25,000	October	16	180 00
25,000	November	16	180 00
25,000	December	16	180 00
30,000	January	16	215 00
35,000	February	16	275 00
35,000	March	16	250 00
30,000	April	16	215 00
35,000	May	16	250 00
35,000	June	16	250 00
300,000		160	$2,178 00

SUPPLEMENTS

10,000	No. 1, September	8	$85 00
20,000	No. 2, September	16	88 00
25,000	No. 1, October	8	108 00
5,000	No. 2, October	16	55 00
5,000	No. 3, October	16	55 00
5,000	No. 1, November	16	55 00
10,000	No. 2, November	16	65 00
25,000	No. 1, December	4	70 25
5,000	No. 2, December	16	55 00
5,000	No. 3, December	12	50 00
5,000	No. 1, January	16	55 00
5,000	No. 2, January	16	55 00
5,000	No. 3, January	8	55 00
10,000	No. 4, January	8	110 00
5,000	No. 1, February	24	80 00
5,000	No. 2, February	16	55 00
5,000	No. 1, March	12	50 00
155,000		228	$1,146 25

SPECIAL BULLETINS

Number		*Pages*	*Cost*
10,000	Hort. Oppor.	12	$70 00
30,000	Agr. Ext. Schools	16	233 00

SUMMARY

AGRICULTURAL EXTENSION

300,000	Regular Bulletin	160	$2,178 00
155,000	Supplements	228	1,146 25
10,000	Hort. Opptrs.	12	70 00
30,000	Agr. Ext. Schools	16	233 00

GENERAL BULLETINS

44,500	College Bulletins	482	$1,127 50
21,000	Catalogues and Announcements	752	890 50
32,000	Schools and Courses	182	471 00
25,000	Spec. Anns. and Views	176	501 15
2,000	Circulars	4	9 50
124,500		1,596	$2,999 65

CALENDAR

28	Numbers Calendar (250 copies each)	$147 00

QUARTERLY

11,250	Quarterly	180	$696 32

MISCELLANEOUS

7,500	Bulletins	74	$150 15

GRAND TOTALS

PUBLICATION BOARD

135,000		1,776	$3,842 97

MISCELLANEOUS

7,500		74	$150 15

AGRICULTURAL EXTENSION

495,000		416	$3,627 25
	Cost of Photo., Drawings and Cuts		$113 28

MAILING EXPENSES

PUBLICATION BOARD

Labor	$678 58
Cartage	23 90
Postage (stamps)	465 85
Postage (by pound)	134 22
Total	$1,202 55

AGRICULTURAL EXTENSION

Labor	$600 50
Cartage	27 50
Postage (by pound)	159 34
Total	787 34

The amount of printed matter issued for the Agricultural Extension Department was greatly increased this year. The total number of bulletins published in 1909 was 265,000, while this year it reached 495,000.

The educational value of the bulletin is so generally recognized that the demand is constantly increasing. The bulletins are mailed to members of township school boards, to the teachers of all secondary schools of the State, whose addresses we can secure, and to several thousand school children. Many teachers use these bulletins in their classroom work.

In addition to the bulletins, the Agricultural Extension Department carried on a publicity scheme of considerable magnitude, by furnishing to over 200 country newspapers plate matter through the American Press Association. Six columns of matter were sent to these papers every month and in most cases were used in full. Two of these columns were used in the interest of the University outside the College of Agriculture and were an effective means of general publicity.

A new feature was introduced into the University printing this year by the operation of the Wertz Labor Law. Under the provisions of this law, all printing required by the University, either in bulletins or job work, must be done by the Ohio State Reformatory at Mansfield, unless the orders for it are released by that Institution. In pursuance of these requirements, nine of our bulletins, including the General Catalog, were printed there.

The general quality of the work is fairly good. It is improving, however, as those engaged in it gain experience. It is all hand work, because the item of time does not enter into the calculations of cost. For this reason the quality must necessarily vary, as new men are put on the work. These facts make the task of proof reading more arduous, since it is necessary to re-read the proof much more than is required in machine-set work. This, coupled with the fact that all proof must be exchanged by mail or express, increases considerably the time of getting out a bulletin.

The financial saving as shown by the following table is interesting and ameliorates in a large degree the inconveniences that attend the operations of this law:

COMPARATIVE STATEMENT

Showing the cost of bulletins printed by local printers in 1909 and the same bulletins printed by the Reformatory in 1910.

Bulletin.	1909			1910		
	No.	pp.	Cost	No.	pp.	Cost
Pharmacy	5,000	40	$87 00	5,000	36	$50 00
Engineer	3,000	74	130 00	6,000	92	105 00
Law	7,500	44	130 00	7,500	48	78 00
Summer Session	10,000	48	186 75	12,500	48	106 00
Lake Laboratory	2,000	16	30 00	2,000	16	14 50
Ent. Inf.	4,000	24	50 00	4,000	24	27 00
Business Administration	5,000	32	91 00	5,000	32	44 90
General Catalogue	7,500	420	1,209 60	5,000	425	528 00
Outlines	1,000	128	80 00	1,500	128	60 00
Totals	45,000	826	$1,994 35	48,000	849	$1,013 40

$1,994.35 less $1,013.40 = $980.95.

Express and freight charges to and from Mansfield were $27.75, making the net difference $953.20.

The change in the system of the Editor's Office referred to in the early part of this report was the appointment of a person, not a student, to supervise the work of the mailing room. Formerly this place was filled by a student who had spent some time in the room and was acquainted, more or less, with the details of the work and with the postal regulations. He usually spent about one-half of his time in the room, the amount depending on the demands of his school work. It soon became evident to me that there was a great laxity in methods of carrying on this important work, because the young men employed did not seem to feel the responsibility it carried. With the consent of the President, I secured the services of Mr. Joseph Dyas, who brought to the position considerable experience in the mailing of second class matter. His appointment was effective January 1, 1911: Some needed systematizing was soon effected and the general efficiency of the work was greatly improved.

This statement is borne out by a comparison of the amount of mail handled and the cost of handling, for the first six months of 1910, with the same period of 1911.

From January 1, 1910 to June 30, 1910, the total amount of pound-weight mail dispatched was 17,337 pounds, handled at a labor cost of $778.70. During the same period in 1911, 22,569 pounds were dispatched at a labor cost of $725.30. In other words, the cost per pound of dispatching mail was reduced from .045 cents to .032 cents.

In addition to this monetary saving, a spirit of promptness in taking care of special requests, coming from the various departments, was infused into the work, so that a confidence has been established between the departments and the mailing room, that is highly gratifying to all concerned.

The equipment of the mailing room was increased by the addition of a new stencil cutter, two cabinets for filing stencils, a flat top office desk, and two mail bag holders, representing an outlay of $260.00.

Respectfully submitted,

W. E. MANN,
Sec'y. Publication Board
and University Editor.

APPENDIX I

BOARD OF TRUSTEES, 1910-1911.

	Date Original Appointment.	Term Expires
Frank E. Pomerene, Coshocton	May 15, 1905	May 13, 1912
Oscar T. Corson, Columbus	May 13, 1899	" 1913
Walter J. Sears, Chillicothe	May 13, 1907	" 1914
John T. Mack, Sandusky	Feb. 24, 1893	" 1915
Julius F. Stone, Columbus	May 13, 1909	" 1916
Guy W. Mallon, Cincinnati	May 11, 1903	" 1917
O. E. Bradfute, Cedarville	Aug. 21, 1905	" 1918

OFFICERS OF THE BOARD

O. E. Bradfute.....*Chairman*
W. J. Sears.....*Chairman*
Carl E. Steeb.....*Secretary*
Lowry F. Sater.....*Treasurer*

COMMITTEES OF THE BOARD

EXECUTIVE

F. E. Pomerene, J. F. Stone,
Walter J. Sears.

FARM

O. E. Bradfute, O. T. Corson,
W. J. Sears.

AUDITING

John T. Mack, Guy W. Mallon,
O. T. Corson.

FACULTY

Guy W. Mallon, F. E. Pomerene,
John T. Mack.

BUILDING

W. O. Thompson, W. J. Sears,
Wm. C. McCracken, C. E. Steeb, *Secretary.*

ROADS AND GROUNDS

W. O. Thompson, J. F. Stone,
C. E. Sherman, H. C. Price,

APPENDIX II

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

WILLIAM OXLEY THOMPSON, D. D., LL. D.....*President*
Office, University Hall.

CARL E. STEEB, B. PH...*Secretary of the Board of Trustees and Purchasing Agent*
Office, University Hall.

WILBUR E. MANN, M. A., *Secretary of the University Faculty and University Editor*
Office, University Hall.

R. M. ROYER.....*Assistant Purchasing Agent*
Office, University Hall.

EDITH D. COCKINS, B. A.....*Registrar*
Office, University Hall.

KATHARINE H. DUNCAN.....*Executive Clerk*
Office, University Hall.

KARL D. MCMAHON.....*Accountant*
Office, University Hall.

FRANK P. GRAVES.....*Dean of the Summer Term*
Office, University Hall.

GEORGE R. TWISS.....*High School Visitor*
Office, University Hall.

F. B. PEARSON.....*High School Visitor*
Office, University Hall.

C. C. MORRIS, M. A.....*Secretary of the Entrance Board*
Office, University Hall.

JOHN A. BOWNOCKER, D. SC.....*Curator of Geological Museum*

WILLIAM C. MILLS, B. SC.....*Curator of Archæological Museum*

WILLIAM C. MCCRACKEN.....*Superintendent of Buildings and Chief Engineer*
Office, Power House.

APPENDIX III

MEMBERS OF UNIVERSITY FACULTY AND OTHER INSTRUCTORS

1910-1911.

WILLIAM OXLEY THOMPSON.....University Grounds
President

WALTER QUINCY SCOTT.....New York City
Emeritus President and Professor of Philosophy

THOMAS CORWIN MENDENHALL.....Florence, Italy
Emeritus Professor of Physics

*ROBERT WHITE MCFARLAND.....Oxford, Ohio
Emeritus Professor of Civil Engineering

SIDNEY AUGUSTUS NORTON.....363 East Town Street
Emeritus Professor of Chemistry

†STILLMAN W. ROBINSON.....1353 Highland Street
Emeritus Professor of Mechanical Engineering

WILLIAM HENRY SCOTT.....Clintonville
Emeritus Professor of Philosophy

‡NATHANIEL WRIGHT LORD.....338 West Eighth Avenue
Professor of Metallurgy and Mineralogy and Director of the School of Mines

SAMUEL CARROLL DERBY.....93 Fifteenth Avenue
Professor of Latin

WILLIAM RANE LAZENBY.....348 West Eighth Avenue
Professor of Forestry

JOSIAH RENICK SMITH.....120 Thirteenth Avenue
Professor of Greek

HENRY ADAM WEBER.....1342 Forsythe Avenue
Professor of Agricultural Chemistry

BENJAMIN FRANKLIN THOMAS.....University Grounds
Professor of Physics

GEORGE WELLS KNIGHT.....Vendome Hotel
Professor of American History

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*Died October, 1910.
†Died October, 1910.
‡Died May, 1911.

ROSSER DANIEL BOHANNAN.....Sixteenth and Indianola Avenues
Professor of Mathematics

ALBERT MARTIN BLEILE.....218 King Avenue
Professor of Anatomy and Physiology

GEORGE BEECHER KAUFFMAN.....University Grounds
Professor of Pharmacy and Dean of the College of Pharmacy

**BENJAMIN LESTER BOWEN
Professor of Romance Languages and Literatures

JOSEPH VILLIERS DENNEY.....190 West Eleventh Avenue
Professor of English and Dean of the College of Arts, Philosophy and Science

ALFRED DODGE COLE.....1648 Neil Avenue
Professor of Physics

EDWARD ORTON, JR.....Lincoln Hotel
Professor of Ceramic Engineering and Dean of the College of Engineering

J. J. ADAMS.....47 Sixteenth Avenue
Professor of Law and Dean of the College of Law

WILLIAM THOMAS MAGRUDER.....342 West Ninth Avenue
Professor of Mechanical Engineering

EDGAR BENTON KINKEAD.....1944 Iuka Avenue; New Hayden Building
Professor of Law

WILLIAM HERBERT PAGE..R. F. D. No. 5, Station A; Chamber of Commerce Bldg.
Professor of Law

WILLIAM MCPHERSON.....198 Sixteenth Avenue
Professor of Chemistry

JOSEPH NELSON BRADFORD.....1598 Neil Avenue
Professor of Architecture

DAVID STUART WHITE.....1656 Neil Avenue
Professor of Veterinary Medicine and Dean of the College of Veterinary Medicine

HERBERT OSBORN .....485 King Avenue
Professor of Zoology and Entomology and Director of Lake Laboratory

OLIVE B. JONES.....95 West Eleventh Avenue
Librarian

HENRY CURWEN LORD.....University Grounds
Professor of Astronomy and Director of the Emerson McMillin Observatory

†FRANK EDWARD SANBORN.....90 East Fourteenth Avenue
Professor of Industrial Arts and Director of the Department

FRANK ARNOLD RAY.....49 East Eleventh Avenue
Professor of Mine Engineering

JOHN ALLEN SHAUCK.....95 Winner Avenue; Supreme Court Building
Professor of Law

CAPT. GEORGE L. CONVERSE, U. S. A. (Retired).....296 West King Avenue
Professor of Military Science and Tactics

**Absent on leave, 1910-1911.

†Absent on leave first semester, 1910-1911

OSCAR ERF.....157 Twelfth Avenue
Professor of Dairying

EMBURY ASBURY HITCHCOCK.....380 West Eighth Avenue
Professor of Experimental Engineering

*FRANCIS CARY CALDWELL
Professor of Electrical Engineering

CHARLES SMITH PROSSER.....114 West Tenth Avenue
Professor of Geology

JOHN ADAMS BOWNOCKER.....1594 Neil Avenue
Professor of Inorganic Geology and Curator of the Museum

RUTH A. WARDALL.....189 East Eleventh Avenue
Professor of Domestic Science

WILBUR HENRY SIEBERT.....182 West Tenth Avenue
Professor of European History

CHRISTOPHER ELIAS SHERMAN.....141 Thirteenth Avenue
Professor of Civil Engineering

EDMOND BOTHWELL DILLON.....83 Wilson Avenue
Professor of Law

GEORGE WASHINGTON RIGHTMIRE.....262 Nineteenth Avenue
Professor of Law

CHARLES SUMNER PLUMB.....107 West Eleventh Avenue
Professor of Animal Husbandry

WILLIAM W. BOYD.....56 North Monroe Avenue
Professor of School Administration and Dean of the College of Education

SEPTIMUS SISSON .....318 West Ninth Avenue
Professor of Comparative Anatomy

HOMER CHARLES PRICE.....1986 Indianola Avenue
Professor of Rural Economics and Dean of the College of Agriculture

†LEWIS ADDISON RHOADES.....162 Fourteenth Avenue
Professor of Germanic Languages and Literatures

DAVID R. MAJOR.....40 East Lane Avenue
Professor of Psychology

**CHARLES BRADFIELD MORREY.....188 West Tenth Avenue
Professor of Bacteriology

JAMES E. HAGERTY.....94 Fifteenth Avenue
Professor of Economics and Sociology

ALFRED VIVIAN.....375 West Eighth Avenue
Professor of Agricultural Chemistry

FRANK HARVEY ENO.....222 East Sixteenth Avenue
Professor of Municipal Engineering

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*Absent on sick leave, 1910-1911
†Died August, 1910.
**Absent on leave, 1910-1911

WENDELL PADDOCK.....Grandview, Cor. Elmer and Bluff
Professor of Horticulture

ARTHUR GILLETT MCCALL.....141 West Eleventh Avenue
Professor of Agronomy

JAMES ELLSWORTH BOYD.....92 West Lane Avenue
Professor of Mechanics

THOMAS EWING FRENCH.....1458 Worthington Street
Professor of Engineering Drawing

H. SHINDLE WINGERT.....12 East Fifteenth Avenue
Professor of Physical Education for Men

FRANK PIERREPONT GRAVES.....1340 Highland Street
Professor of the History and Philosophy of Education

FREDERICK RUPERT MARSHALL.....315 West Ninth Avenue
Professor of Animal Husbandry

HENRY RUSSELL SPENCER.....259 East Gay Street
Professor of Political Science

ALONZO HUBERT TUTTLE.....323 West Ninth Avenue
Professor of Law

GEORGE H. MCKNIGHT.....646 Franklin Avenue
Professor of English

THOMAS HARVEY HAINES.....696½ North High Street
Professor of Psychology

GEORGE WASHINGTON MCCOARD.....1448 Neil Avenue
Professor of Mathematics

ARTHUR WINFRED HODGMAN.....325 West Tenth Avenue
Professor of Classical Languages

WILLIAM EDWARDS HENDERSON.....182 West Tenth Avenue
Professor of Inorganic and Physical Chemistry

JOSEPH RUSSELL TAYLOR.....376 West Seventh Avenue
Professor of English

CHARLES A. BRUCE.....1981 Indianola Avenue
Professor of Romance Languages

CHARLES WILLIAM FOULK.....384 King Avenue
Professor of Analytical Chemistry

KARL DALE SWARTZEL.....1952 Iuka Avenue
Professor of Mathematics

FRANCIS LEROY LANDACRE.....135 Twelfth Avenue
Professor of Zoology and Entomology

WALLACE S. ELDEN.....1734 Summit Street
Professor of Classical Languages

MATTHEW BROWN HAMMOND.....1483 Michigan Avenue
Professor of Economics and Sociology

HARRY WALDO KUHN.....316 West Ninth Avenue
Professor of Mathematics

ARTHUR ERNEST DAVIES.....146 East Frambes Avenue
Professor of Philosophy

CLYDE T. MORRIS.....292 East Sixteenth Avenue
Professor of Structural Engineering

GEORGE RANSOM TWISS.....318 West Ninth Avenue
High School Visitor

FRANCIS BAIL PEARSON.....125 Wilson Avenue
High School Visitor

JOHN H. MCNEIL.....1634 Neil Avenue
Professor of Veterinary Surgery and Obstetrics

JOSEPH A. LEIGHTON.....1832 Summit Street
Professor of Philosophy

J. WARREN SMITH.....117 Chittenden Avenue
Professor of Meteorological Science

E. E. SOMERMEIER.....1590 Neil Avenue
Professor of Metallurgy and Mineralogy

CLAIR A. DYE.....1569 Worthington Street
Professor of Pharmacy

OSCAR V. BRUMLEY.....1806 North High Street
Professor of Veterinary Medicine

MARY REBECCA LAVER.....1475 Worthington Street
Professor of Art

EUGENE F. MCCAMPBELL.....22 East Seventeenth Avenue
Professor of Bacteriology

A. G. G. RICHARDSON.....387 King Avenue
Professor of Veterinary Pathology

JOHN H. SCHAFFNER.....122 Chittenden Avenue
Associate Professor of Botany

JAMES STEWART HINE.....1340 Hunter Street
Associate Professor of Zoology and Entomology

HORACE JUDD.....281 Thirteenth Avenue
Associate Professor of Experimental Engineering

EDWIN F. CODDINGTON.....426 Fifteenth Avenue
Associate Professor of Mechanics

EDGAR SHUGERT INGRAHAM.....Clintonville, Ohio
Associate Professor of Romance Languages

WILLIAM LLOYD EVANS.....1168 Fair Avenue
Associate Professor of Chemistry

BERTHOLD AUGUST EISENLOHR.....393 West Eighth Avenue
Associate Professor of Germanic Languages and Literatures

CHARLES ST. JOHN CHUBB.....80 West Eighth Avenue
Associate Professor of Architecture

ROSS C. PURDY.....253 East Nineteenth Avenue
Associate Professor of Ceramic Engineering

THOMAS SCOTT LOWDEN.....357 West Seventh Avenue
Associate Professor of the Principles and Practice of Education

JAMES RENWICK WITHROW.....1619 Highland Avenue
Associate Professor of Chemistry

EDNA NOBLE WHITE.....189 West Eleventh Avenue
Associate Professor of Domestic Science

ANNA KATHERINE FLINT.....1485 Michigan Avenue
Associate Professor of Domestic Art

ALICE LITTLEJOHN .....2 East Fifteenth Avenue
Associate Professor of Physical Education

HOMER C. HOCKETT.....94 Chittenden Avenue
Associate Professor of American History

JOHN HERMAN HUNT.....1323 Forsythe Avenue
Associate Professor of Electrical Engineering

*SAMUEL EUGENE RASOR
Associate Professor of Mathematics

FAYETTE AVERY MCKENZIE.....83 Sixteenth Avenue
Associate Professor of Economics and Sociology

JOHN F. LYMAN.....1345 Highland Street
Associate Professor of Agricultural Chemistry

WILLIAM LUCIUS GRAVES.....1313 Forsythe Avenue
Associate Professor of English

CHARLES LINCOLN ARNOLD.....328 West Eighth Avenue
Associate Professor of Mathematics

*EDGAR HOLMES MCNEIL
Associate Professor of European History

RAYMOND JESSE SEYMOUR.....1752 Summit Street
Associate Professor of Anatomy and Physiology

WILLIAM ABNER KNIGHT.....206 West Lane Avenue
Associate Professor of Machine Shop Practice

EDMUND SEWALL MANSON, JR.....212 West Tenth Avenue
Associate Professor of Astronomy

J. R. WITHROW.....1619 Highland Street
Associate Professor of Chemistry

R. F. EARHART.....381 West Tenth Avenue
Associate Professor of Physics

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*Absent on leave, 1910-1911

VERNON H. DAVIS.....236 West Eighth Avenue
Assistant Professor of Horticulture

HOMER F. STALEY.....2 Fifteenth Avenue
Assistant Professor of Ceramic Engineering

THOMAS KENYON LEWIS.....188 West Tenth Avenue
Assistant Professor of Manual Training

WELLS H. MINOR.....132 West Tenth Avenue
Assistant Professor of Mine Engineering

CARSON SAMUEL DUNCAN.....316 West Eighth Avenue
Assistant Professor of English

ROY K. SCHLAFLY.....1826 North Fourth Street
Assistant Professor of Civil Engineering

MAY THOMAS.....1634 Neil Avenue
Assistant Professor of Germanic Languages and Literature

*ROBERT FISKE GRIGGS
Assistant Professor of Botany

WALTER THOMPSON PEIRCE.....449 West Sixth Avenue
Assistant Professor of Romance Languages

JOHN BOWKER PRESTON.....290 East Fifteenth Avenue
Assistant Professor of Mathematics

CHARLES CLEMENTS MORRIS.....149 East Frambes Avenue
Assistant Professor of Mathematics

ROBERT MEIKLEJOHN.....1528 Worthington Street
Assistant Professor of Engineering Drawing

ADOLPH BUSSE.....66 East Fourteenth Avenue
Assistant Professor of Germanic Languages and Literatures

ALPHEUS WILSON SMITH.....215 East Sixteenth Avenue
Assistant Professor of Physics

THEODORE ELY HAMILTON.....315 West Ninth Avenue
Assistant Professor of Romance Languages

CLARENCE PERKINS.....1371 Highland Street
Assistant Professor of European History

CHARLES E. BLANCHARD.....139 West Northwood Avenue
Assistant Professor of English

JOHN ROSS CHAMBERLIN.....1446 Hunter Street
Assistant Professor of Civil Engineering

GRACE MARIE BAREIS.....201 West Eleventh Avenue
Assistant Professor of Mathematics

ALFRED PAUL DACHNOWSKI.....307 West Ninth Avenue
Assistant Professor of Botany

*Absent on leave, 1910-1911

*Archibald Mowbray Burnham.....207 East Fifteenth Avenue
Assistant Professor of English

Louis Albion Cooper.....329 West Ninth Avenue
Assistant Professor of English

Harry Clifford Ramsower.....57 East Woodruff Avenue
Assistant Professor of Agronomy

William Franklin Gephart.....64 Fourteenth Avenue
Assistant Professor of Economics and Sociology

Edwin Poe Durrant.....Westerville, Ohio
Assistant Professor of Anatomy and Physiology

William Morton Barrows.....385 East Oakland Avenue
Assistant Professor of Zoology and Entomology

Dana James Demorest.....385 Fifteenth Avenue
Assistant Professor of Metallurgy and Mineralogy

Oliver Cary Lockhart.....1731 Summit Street
Assistant Professor of Economics and Sociology

Frederick Columbus Blake.....1608 Summit Street
Assistant Professor of Physics

Julia Titsworth.....189 West Eleventh Avenue
Assistant Professor of Art

Walter James Shepard.....36 Fourteenth Avenue
Assistant Professor of Political Science

L. M. Montgomery.....1526 Worthington Street
Assistant Professor of Horticulture

W. B. Cockley.....323 West Ninth Avenue
Assistant Professor of Law

Carl Joseph West.....3 East Lane Avenue
Assistant Professor of Mathematics

Alexander Vallance.....21 East Eighteenth Avenue
Assistant Professor of Experimental Engineering

Charles Sheard.....88 East Eleventh Avenue
Assistant Professor of Physics

Fonsa A. Lambert.....1576 Neil Avenue
Assistant Professor of Veterinary Anatomy

E. L. Beck.....185 West Eleventh Avenue
Assistant Professor of English

Henry W. Vaughan.....1567 East Long Street
Assistant Professor of Animal Husbandry

Ernest Scott.....Clintonville, Ohio
Assistant Professor of Pathology

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*Resigned February, 1911.

C. C. HUNTINGTON.....1485 Pennsylvania Avenue
Assistant Professor of Economics and Sociology

LOREN W. MCOMBER.....233 Eleventh Avenue
Assistant Professor of Electrical Engineering

HARRY F. HARRINGTON.....1330 Forsythe Avenue
Assistant Professor of English

THOMAS MCDOUGAL HILLS.....76 Twelfth Avenue
Assistant Professor of Geology

SARAH T. BARROWS.....1806 North High Street
Assistant Professor of Germanic Languages and Literatures

WILLIAM C. MILLS.....78 West Tenth Avenue
Curator of Archaeology

CHARLES PHILIP CROWE.....1627 North High Street
Instructor in Forging

WILLIAM LEANDER CLEVENGER.....60 Eighteenth Avenue
Instructor in Butter-making

WILLIAM J. NORRIS.....60 East Eighth Avenue
Instructor in Engineering Drawing

ROBERT OSCAR BUSEY.....2050 Iuka Avenue
Instructor in Germanic Languages and Literatures

OWEN E. WILLIAMS.....2094 Tuller Street
Instructor in Engineering Drawing

ALLANDO CASE.....Powell, Ohio
Instructor in Vise Work

FREDERICA DETMERS.....469 Vermont Place
Instructor in Botany

MARGARET STOKES FINNEY.....392 West Ninth Avenue
Instructor in Art

EDWARD SPEASE.....22 Sixteenth Avenue
Instructor in Pharmacy

VITTORIO FALORSI.....The Normandie
Instructor in Romance Languages

WILLIAM CLIFFORD MORSE.....68 East Woodruff Avenue
Instructor in Geology

JOHN ANDERSON WILKINSON.....132 West Tenth Avenue
Instructor in Chemistry

CLEMENT M. BEEM.....173 Fourteenth Avenue
Instructor in Pattern-making and Founding

FRANK H. HASKETT.....229 West Eighth Avenue
Instructor in Architecture

CREE SHEETS.....75 East Woodruff Avenue
Instructor in Engineering Drawing

CARL D. HARROP.....26 Oakland Avenue
Instructor in Ceramic Engineering

ARTHUR C. HARPER.....135 West Eighth Avenue
Instructor in Engineering Drawing

HERMAN GUSTAVUS HEIL.....215 Sixteenth Avenue
Instructor in Physics

OMER C. CUNNINGHAM.....1495 Hamlet Street
Instructor in Dairying

DAVID RAYMOND KELLOGG.....1559 Highland Street
Instructor in Chemistry

GEORGE S. CHAPIN.....19 Chittenden Avenue
Substitute Instructor in Romance Languages

WILLIAM A. STARIN.....58 Chittenden Avenue
Instructor in Bacteriology

WILMER G. STOVER.....325 West Tenth Avenue
Substitute Instructor in Botany

*CHARLES L. ARMSBY.....139 West Eighth Avenue
Instructor in Civil Engineering

H. W. STERTZBACH.....295 Sixteenth Avenue
Instructor in Civil Engineering

A. H. HINKLE.....28 Thirteenth Avenue
Instructor in Civil Engineering

BEATRICE SHEETS.....298 Woodland Avenue
Instructor in Economics and Sociology

FREDERICK W. IVES.....53 East Twelfth Avenue
Instructor in Engineering Drawing

WILLIAM DAVIS TURNBULL.....2208 Indiana Avenue
Instructor in Engineering Drawing

CHRISTIAN H. GOETZ.....1006 Neil Avenue
Instructor in Forestry

JAMES H. WEAVER.....26 West Frambes Avenue
Substitute Instructor in Mathematics

RALPH E. HALL.....75 West Tenth Avenue
Assistant in Chemistry

W. H. PALMER
Assistant in Animal Husbandry (Winter Courses)

CECIL E. BOORD.....230 West Ninth Avenue
Assistant in Chemistry

JOHN E. SHEPARDSON.....40 East Eleventh Avenue
Assistant in Electrical Engineering

U. W. DENMAN.....505 Chilcote Street
Assistant in Pattern-making

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*Resigned February, 1911.

CHRISTIAN NUSBAUM.....325 West Tenth Avenue
Assistant in Physics

ANNA F. BLOHM.....189 West Eleventh Avenue
Assistant in Domestic Art

HORTENSE RICKARD.....333 West Tenth Avenue
Assistant in Mathematics

ALBERT HENRY HEITMANN.....615 East Rich Street
Assistant in Electrical Engineering

G. O. WEIMER.....124 West Tenth Avenue
Assistant in Physics

FRANK W. POTE.....29 West Lane Avenue
Assistant in Physics

DORA SAUER.....24 Stewart Avenue
Assistant in Physical Education

HAZIL H. BAILEY.....237 West Eighth Avenue
Assistant in Mechanical Engineering

H. E. NOLD.....185 West Ninth Avenue
Assistant in Mine Engineering

CLINTON J. GRANT.....161 West Tenth Avenue
Assistant in Agronomy

AMOS P. POTTS.....207 West Eighth Avenue
Assistant in Ceramic Engineering

JONATHAN FORMAN
Assistant in Anatomy and Physiology

HOWARD E. BOUCHER.....Columbus Protestant Hospital
Assistant in Anatomy and Physiology

JAMES G. WITTENMYER.....1288 Neil Avenue
Assistant in Anatomy and Physiology

THOMAS D. PHILLIPS.....1620 Neil Avenue
Assistant in Rural Economics

HARRY H. BUMGARDNER.....1235 Highland Street
Assistant in Germanic Languages and Literatures

IDA M. SHILLING.....Oxley Hall
Assistant in Domestic Science

EMERY ANDREW BAUER.....67 West Eleventh Avenue
Assistant in Physical Education for Men

JAMES H. SNOOK.....1500 Neil Avenue
Assistant in Veterinary Medicine

R. A. SCOTHORN.....Veterinary Clinic Building
Assistant in Veterinary Medicine

LOU HELEN MORGAN.....189 West Eleventh Avenue
Assistant in Chemistry

GEORGE WEATHERWORTH STRATTON.....179 Chittenden Avenue
Assistant in Chemistry

MARGARET MACLEAN.....489 King Avenue
Assistant in Chemistry

*BYRON M. HENDRIX.....1563 Highland Street
Assistant in Agricultural Chemistry

**J. THOMAS KIBLER.....32 East Seventeenth Avenue
Assistant in Physical Education for Men

H. J. BOWER.....181 West Eighth Avenue
Assistant in Agronomy

GERTRUDE WRIGHT.....1612 Highland Street
Assistant in Archaeology

ADOLPH FEIEL.....520 East Main Street
Assistant in Anatomy and Physiology

EDGAR JOHN WITZEMANN.....2144 Neil Avenue
Assistant in Chemistry

HARRIET TOWNSHEND.....53 West Eleventh Avenue
Assistant in Library

MAUD DOROTHY JEFFREY.....161 Fourteenth Avenue
Reference Librarian

GERTRUDE STOWELL KELLICOTT.....32 East Seventeenth Avenue
Accession Librarian

CHARLES W. REEDER.....183 West Ninth Avenue
Assistant Reference Librarian

†CHARLES F. MCCOMBS.....
Assistant Accession Librarian

ALICE L. WING.....116 East Twelfth Avenue
Cataloguer

DONALD LEIDIGH.....47 King Avenue
Accession Assistant in Library

MIRPAH G. BLAIR.....116 East Twelfth Avenue
Head Cataloguer

IDA L. WOLF.....217 King Avenue
Assistant Accession Librarian

BLANCHE L. SEIPEL.....312 West Seventh Avenue
Catalogue Assistant

ALINE B. CARDER.....135 King Avenue
Assistant in Library

HARRY R. O'BRIEN.....59 East Sixteenth Avenue
Night Assistant in Library

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*Resigned November, 1910
**Resigned March, 1911
†Resigned August, 1910

ORSON WYNE BUCK.....Station B, Columbus
Student Assistant in Metallurgy and Mineralogy

LEON POWELL SHINN.....127 West Tenth Avenue
Student Assistant in Pharmacy

BERTRAM W. WELLS.....129 West Tenth Avenue
Student Assistant in Botany

HARLEY J. A. GERARD.....105½ McMillen Avenue
Student Assistant in Engineering Drawing

ROBERT M. GALLOWAY.....51 West Frambes Avenue
Student Assistant in Industrial Arts

ARCHIE L. HOPKINS.....185 West Ninth Avenue
Student Assistant in Mechanical Engineering

FRED S. GRIFFIN.....185 West Ninth Avenue
Student Assistant in Mechanics

HARRY B. NORTHRUP.....124 Chittenden Avenue
Student Assistant in Mine Engineering

CHARLES M. SHINN.....390 King Avenue
Student Assistant in Mine Engineering

MARIE MCLELLAN.....Oxley Hall
Student Assistant in Zoology and Entomology

CLELL L. METCALF.....83 East Eleventh Avenue
Student Assistant in Zoology and Entomology

BENTLEY B. FULTON.....129 West Tenth Avenue
Student Assistant in Zoology and Entomology

FRANCIS H. LANDRUM.....228 North Monroe Avenue
Technician in Veterinary Medicine

GUY VAN SICKLE.....R. F. D. No. 5, Columbus
Fellow in Chemistry

JEANNETTE EATON.....398 West Fifth Avenue
Fellow in English

CYRUS ALAN MELICK.....93 Price Avenue
Robinson Fellow in Engineering

ALBERT L. BURNS.....1955 Waldeck Avenue
Fellow in Chemistry

FLETCHER AYRES.....156 West Eighth Avenue
Fellow in Chemistry

ARTHUR GUILLAUDEU.....1454 Neil Avenue
Fellow in Chemistry

GLENN G. COLE.....60 West Tenth Avenue
Fellow in Chemistry

WILLIAM B. LEIGHNINGER.....319 King Avenue
Fellow in Chemistry

ELMER HOCKETT.....134 West Lane Avenue
Fellow in Chemistry

ALBERT W. DAVISON.....103 West Tenth Avenue
Fellow in Chemistry

JOHN E. FOGELSONG.....134 West Lane Avenue
Fellow in Chemistry

RAY L. EDWARDS.....1563 Highland Street
Fellow in Physics

GEORGE W. HOOD.....57 West Eighth Avenue
Fellow in Zoology and Entomology

RAY NISWONGER.....182 East Lane Avenue
Fellow in Zoology and Entomology

A. B. GRAHAM.....168 West Twelfth Avenue
Superintendent of Agricultural Extension

FIRMAN E. BEAR.....57 East Woodruff Avenue
Assistant Professor of Agricultural Chemistry in Agricultural Extension

ERNEST D. WAID.....55 East Woodruff Avenue
Assistant Professor of Agronomy in Agricultural Extension

VERNON H. DAVIS.....236 West Eighth Avenue
Assistant Professor of Horticulture in Agricultural Extension

J. H. GOURLEY.....67 West Tenth Avenue
Assistant Professor of Horticulture in Agricultural Extension

C. R. TITLOW.....140 East Eleventh Avenue
Assistant in Agricultural Extension

T. L. WHEELER.....R. R. No. 5, Station A, Columbus
Editor—Agricultural Extension

C. D. STEINER.....53 East Woodruff Avenue
Assistant in Agricultural Extension

H. E. ESWINE.....Etna, Ohio
Assistant in Agricultural Extension

G. A. BRICKER.....175 Chittenden Avenue
Assistant in Agricultural Education

W. H. DARST.....1620 Neil Avenue
Assistant in Agronomy in Agricultural Extension

GEORGE LIVINGSTON.....75 West Tenth Avenue
Assistant in Agronomy in Agricultural Extension

GEORGE F. STORY.....88 West Tenth Avenue
Assistant in Animal Husbandry in Agricultural Extension

HARRY EVANS.....1630 Neil Avenue
Assistant in Animal Husbandry in Agricultural Extension

E. F. RINEHART.....1532 Worthington Street
Assistant in Dairying in Agricultural Extension

MARY EDMONDS.....189 West Eleventh Avenue
Assistant in Domestic Science in Agricultural Extension

ELIZABETH JEFFERSON .....1399 Neil Avenue
Assistant in Domestic Science in Agricultural Extension

INEZ VAN SICKLE.....Ashland Avenue, Grandview
Assistant in Domestic Science in Agricultural Extension

NELLIE WOODS .....297 West Eighth Avenue
Assistant in Domestic Science in Agricultural Extension

CLARE WEST .....22 West Woodruff Avenue
Assistant in Domestic Science in Agricultural Extension

APPENDIX IV

REPORT OF THE TREASURER

OF

THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO.

To the Secretary of the Interior and the Secretary of Agriculture, of amount received under acts of Congress of August 30, 1890, and March 4, 1907, in aid of Colleges of Agriculture and the Mechanic Arts, and the disbursements thereof, to and including June 30, 1911.

SCHEDULE A

Disbursements for instruction in Agriculture and for facilities for such instruction during the year ending June 30, 1911.

I. FOR SALARIES OF INSTRUCTORS:

Names of Instructors	Total Annual Salary	Subjects taught by the instructor for which he is paid from the funds received under the acts of August 30, 1890, and March 4, 1907	Proportion of time given to instruction in such subjects	Amount paid from funds received under the acts of August 30, 1890, and March 4, 1907.
Homer C. Price.....	$2,750	Rural Economics	All ..	$550 00
W. Paddock	2,500	Horticulture	" ..	500 00
Vernon H. Davis....	1,100	Horticulture	" ..	183 32
L. M. Montgomery..	1,500	Horticulture	" ..	300 00
Wm. R. Lazenby....	2,400	Forestry	" ..	480 00
A. G. McCall.....	2,200	Agronomy	" ..	440 00
H. C. Ramsower....	1,500	Agronomy	" ..	300 00
C. S. Plumb.....	2,750	Animal Husbandry.....	" ..	550 00
F. R. Marshal.....	2,100	Animal Husbandry.....	" ..	420 00
H. W. Vaughan.....	1,500	Animal Husbandry.....	" ..	300 00
Oscar Erf	2,500	Dairying	" ..	500 00
O. C. Cunningham...	1,200	Dairying	" ..	200 00
W. L. Clevenger....	1,200	Dairying	" ..	200 00
David S. White.....	3,000	Veterinary Medicine	" ..	600 00
S. Sisson	3,000	Veterinary Medicine	" ..	600 00
J. H. McNeil.....	2,750	Veterinary Medicine	" ..	550 00
O. V. Brumley.....	1,900	Veterinary Medicine	" ..	380 00
A. G. G. Richardson.	2,400	Veterinary Medicine	" ..	480 00
F. A. Lambert.....	1,400	Veterinary Medicine	" ..	280 00
Total for Schedule A	.....	.....	.....	$7,813 32

SCHEDULE B

Disbursements for instruction in Mechanic Arts and for facilities for such instruction during the year ending June 30, 1911.

I. For Salaries of Instructors:

Names of Instructors	Total Annual Salary	Subjects taught by the instructor for which he is paid from the funds received under the acts of August 30, 1890, and March 4, 1907	Proportion of time given to instruction in such subjects	Amount paid from funds received under the acts of August 30, 1890, and March 4, 1907.
Wm. T. Magruder..	$2,750	Mechanical Engineering	All ..	$550 00
C. E. Sherman.....	2,400	Civil Engineering	" ..	480 00
F. H. Eno.....	2,000	Municipal Engineering	" ..	400 00
Clyde T. Morris.....	2,000	Structural Engineering	" ..	400 00
R. K. Schlafly.....	1,700	Civil Engineering	" ..	340 00
J. R. Chamberlin....	1,400	Civil Engineering	" ..	280 00
A. H. Hinkle.....	1,200	Civil Engineering	" ..	240 00
C. L. Armsby.....	1,200	Civil Engineering	" ..	240 00
F. C. Caldwell.....	1,300	Electrical Engineering	" ..	260 00
J. H. Hunt.....	1,700	Electrical Engineering	" ..	340 00
L. W. McOmber.....	1,300	Electrical Engineering	" ..	260 00
F. A. Ray.....	1,500	Mine Engineering	" ..	300 00
Wells H. Minor.....	1,500	Mine Engineering	" ..	300 00
E. A. Hitchcock....	2,100	Experimental Engineering	" ..	420 00
Horace Judd	1,700	Experimental Engineering	" ..	340 00
A. Vallance	1,000	Experimental Engineering	" ..	200 00
J. N. Bradford.....	2,500	Architecture	" ..	500 00
C. St. J. Chubb.....	1,400	Architecture	" ..	280 00
F. H. Haskett.....	1,200	Architecture	" ..	240 00
Thos. E. French....	2,400	Engineering Drawing	" ..	480 00
Robt. Meiklejohn ...	1,500	Engineering Drawing	" ..	300 00
A. C. Harper.....	1,200	Engineering Drawing	" ..	240 00
O. E. Williams.....	1,200	Engineering Drawing	" ..	240 00
Cree Sheets	1,100	Engineering Drawing	" ..	220 00
Edw. Orton, Jr.....	3,250	Ceramic Engineering	" ..	650 00
Ross C. Purdy.....	2,000	Ceramic Engineering	" ..	400 00
H. F. Staley.....	1,600	Ceramic Engineering	" ..	320 00
F. E. Sanborn.....	2,200	Industrial Arts	" ..	440 00
W. A. Knight.....	1,400	Machine Shop Practice.....	" ..	280 00
C. P. Crowe.....	1,300	Forging	" ..	260 00
C. M. Beem.....	1,100	Patternmaking and Founding..	" ..	220 00
Total for Schedule B	.....	.....	.....	$10,420 00

SCHEDULE C

Disbursements for instruction in English Language and for facilities for such instruction during the year ending June 30, 1911.

I. For Salaries of Instructors:

Names of Instructors	Total Annual Salary	Subjects taught by the instructor for which he is paid from the funds received under the acts of August 30, 1890, and March 4, 1907	Proportion of time given to instruction in such subjects	Amount paid from funds received under the acts of August 30, 1890, and March 4, 1907.
J. V. Denney	$3,250	English	All	$650 00
J. R. Taylor	2,200	English	"	440 00
G. H. McKnight	2,000	English	"	400 00
W. L. Graves	1,800	English	"	360 00
C. S. Duncan	1,600	English	"	320 00
C. E. Blanchard	900	English	"	180 00
L. A. Cooper	1,100	English	"	220 00
A. M. Burnham	1,100	English	"	220 00
H. F. Harrington	1,100	English	"	220 00
Total for Schedule C	.....	.....	.....	$3,010 00

SCHEDULE D

Disbursements for instruction in Mathematical Science and for facilities for such instruction during the year ending June 30, 1911.

I. For Salaries of Instructors:

Names of Instructors	Total Annual Salary	Subjects taught by the instructor for which he is paid from the funds received under the acts of August 30, 1890, and March 4, 1907	Proportion of time given to instruction in such subjects	Amount paid from funds received under the acts of August 30, 1890, and March 4, 1907.
R. D. Bohannan....	$2,750	Mathematics	All ..	$550 00
G. W. McCoard....	1,800	Mathematics	" ..	360 00
K. D. Swartzel.....	2,000	Mathematics	" ..	400 00
H. W. Kuhn.....	2,000	Mathematics	" ..	400 00
C. L. Arnold.....	1,500	Mathematics	" ..	300 00
S. E. Rasor.....	1,500	Mathematics	" ..	300 00
J. B. Preston.....	1,500	Mathematics	" ..	300 00
C. C. Morris.....	1,300	Mathematics	" ..	260 00
Grace Bareis	1,200	Mathematics	" ..	240 00
C. J. West.....	1,200	Mathematics	" ..	240 00
James H. Weaver..	1,200	Mathematics	" ..	240 00
J. E. Boyd.....	2,250	Mechanics	" ..	450 00
E. F. Coddington....	1,800	Mechanics	" ..	360 00
H. C. Lord.....	2,750	Astronomy	" ..	550 00
E. S. Manson, Jr....	1,300	Astronomy	" ..	260 00
Total for Schedule D	.....	.....	.....	$5,210 00

SCHEDULE E

Disbursements for instruction in Natural and Physical Science and for facilities for such instruction during the year ending June 30, 1911.

I. For Salaries of Instructors:

Names of Instructors	Total Annual Salary	Subjects taught by the instructor for which he is paid from the funds received under the acts of August 30, 1890, and March 4, 1907	Proportion of time given to instruction in such subjects	Amount paid from funds received under the acts of August 30, 1890, and March 4, 1907.
Wm. McPherson	$2,500	Chemistry	All	$500 00
W. E. Henderson	2,100	Inorganic and Physical Chemistry	"	420 00
C. W. Foulk	2,000	Analytical Chemistry	"	400 00
W. L. Evans	1,800	Chemistry	"	360 00
James R. Withrow	1,600	Chemistry	"	320 00
John A. Wilkinson	1,200	Chemistry	"	240 00
A. D. Cole	3,000	Physics	"	600 00
B. F. Thomas	2,500	Physics	"	500 00
R. F. Earhart	1,700	Physics	"	340 00
F. C. Blake	1,600	Physics	"	320 00
Chas. Sheard	1,400	Physics	"	280 00
A. W. Smith	1,500	Physics	"	300 00
H. G. Heil	1,000	Physics	"	200 00
J. H. Schaffner	2,000	Botany	"	400 00
R. F. Griggs	1,200	Botany	"	240 00
A. Dachnowski	1,700	Botany	"	340 00
Freda Detmers	1,200	Botany	"	240 00
W. G. Stover	1,200	Botany	"	240 00
Herbert Osborn	2,750	Zoology and Entomology	"	550 00
F. L. Landacre	1,800	Zoology and Entomology	"	360 00
J. S. Hine	1,600	Zoology and Entomology	"	320 00
Wm. M. Barrows	1,400	Zoology and Entomology	"	280 00
C. S. Prosser	2,750	Geology	"	550 00
J. A. Bownocker	2,200	Inorganic Geology	"	440 00
W. C. Morse	1,300	Geology	"	260 00
Thos. M. Hills	1,300	Geology	"	260 00
N. W. Lord	2,000	Metallurgy and Mineralogy	"	400 00
E. E. Somermeier	1,900	Metallurgy and Mineralogy	"	380 00
D. J. Demorest	1,500	Metallurgy and Mineralogy	"	300 00
A. M. Bleile	2,750	Anatomy and Physiology	"	550 00
R. J. Seymour	1,600	Anatomy and Physiology	"	320 00
E. P. Durrant	1,200	Anatomy and Physiology	"	240 00
Charles B. Morrey	2,000	Bacteriology	"	400 00
E. F. McCampbell	1,800	Bacteriology	"	360 00
Wm. A. Starin	1,200	Bacteriology	"	240 00
Ernest Scott	750	Bacteriology	"	150 00
Geo. B. Kauffman	2,000	Pharmacy	"	400 00
C. A. Dye	1,900	Pharmacy	"	380 00
Edward Spease	1,000	Pharmacy	"	200 00
Alfred Vivian	3,000	Agricultural Chemistry	"	600 00
H. A. Weber	2,250	Agricultural Chemistry	"	450 00
John F. Lyman	1,600	Agricultural Chemistry	"	320 00
Total for Schedule E				$14,950 00

SCHEDULE F

Disbursements for instruction in Economic Science and for facilities for such instruction during the year ending June 30, 1911.

I. For Salaries of Instructors.

Names of Instructors	Total Annual Salary	Subjects taught by the instructor for which he is paid from the funds received under the acts of August 30, 1890, and March 4, 1907	Proportion of time given to instruction in such subjects	Amount paid from funds received under the acts of August 30, 1890, and March 4, 1907.
James E. Hagerty...	$2,750	Economics and Sociology.....	All ..	$550 00
M. B. Hammond....	2,000	Economics and Sociology.....	" ..	400 00
F. A. McKenzie.....	1,600	Economics and Sociology.....	" ..	320 00
O. C. Lockhart.....	1,600	Economics and Sociology.....	" ..	320 00
W. F. Gephart.....	1,600	Economics and Sociology.....	" ..	320 00
C. C. Huntington....	1,500	Economics and Sociology.....	" ..	300 00
Beatrice Sheets	1,000	Economics and Sociology.....	" ..	200 00
Ruth A. Wardall...	2,000	Domestic Science	" ..	400 00
Edna N. White.....	1,500	Domestic Science	" ..	300 00
Anna K. Flint.....	1,500	Domestic Art	" ..	300 00
Anna F. Blohm.....	900	Domestic Art	" ..	180 00
Total for Schedule F	.....	.....	.....	$3,590 00

SUMMARY

Balance on hand July 1, 1910	$4 99
Date of receipt of installment for 1910-11, July 12, 1910, Amount	45,000 00
Total available for year ending June 30, 1911	$45,004 99
Disbursements thereof for and during the year ending June 30, 1911:	
Agriculture, as per Schedule A	$7,813 32
Mechanic Arts, as per Schedule B	10,420 00
English Language, as per Schedule C	3,010 00
Mathematical Science, as per Schedule D	5,210 00
Natural or Physical Science as per Schedule E	14,950 00
Economic Science, as per Schedule F	3,590 00
Training of Teachers of Elementary Agriculture and Mechanic Arts, as per Schedule G	.....
Total expended during year	$44,993 32
Balance remaining unexpended July 1, 1911	11 67

I HEREBY CERTIFY that the above account is correct and true, and, together with the schedules hereunto attached, truly represents the details of expenditures for the period and by the institution named; that said expenditures were applied solely to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their applications in the industries of life, to the special preparation of instructors for teaching the elements of agriculture and the mechanic arts, and to the facilities for such instruction; and that no part of these funds was expended for the erection, preservation, or repair of any building or buildings.

L. F. SATER,
Treasurer.

I HEREBY CERTIFY that L. F. Sater, whose signature is attached above to this report, is the treasurer of the above-mentioned institution.

CARL E. STEEB,
Secretary.

[SEAL OF THE INSTITUTION.]

APPENDIX V

THE WORK OF INSTRUCTORS 1910-1911

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
AGRICULTURAL CHEMISTRY						
General Agricultural Chemistry	103	5	63	104	5	62
Soil Chemistry	109	4	7	110	4	7
Dairy Chemistry	107	4	2	108	4	2
Food Analysis	121	4	11	122	4	4
Household Chemistry	125	5	33	126	4	4
Graduate Special	.....	5	2	.....	5	2
Research Work	131	7	5	132	7	5
Domestic Science Chemistry	124	5	30	.....	.....	.....
AGRONOMY						
Elementary Soils	105	4	29	104	4	51
Grass and Forage Crops	111	3	5	.....	.....	.....
Crop Improvement	113	3	5	.....	.....	.....
Seed and Market Grains	109	2	10	.....	.....	.....
Agricultural Experimentation	.....	.....	.....	110	4	6
Elementary Crops	.....	.....	.....	108	4	87
Research	119	5	1	120	5	1
Advanced Soils	107	4	4	.....	.....	.....
Farm Equipment	103	4	105	.....	.....	.....
Agricultural Engineering	.....	.....	.....	102	4	17
AMERICAN HISTORY						
Political History of United States	101	3	78	102	3	70
Slavery Struggle	111	3	10	112	3	8
Teaching of American History	.....	.....	.....	121	2	6
Seminar	205	2	3	206	2	3
International Law	103	2	10	104	2	8
History of West	.....	.....	.....	104	3	11
American Constitutional History	107	2	13	108	2	13
Colonial History	103	3	6	.....	.....	.....
Proseminar	119	2	1	120	2	1
ANATOMY AND PHYSIOLOGY						
Human Anatomy and Physiology	101	3	182	102	3	179
Histology and Histo-Chemistry	105	5	89	106	5	100
Physiological Laboratory	109	3	3	110	3	3
Veterinary Physiology	.....	.....	.....	114	3	45
Human Anatomy	107	3	13	.....	.....	.....
ANIMAL HUSBANDRY						
Feeds and Feeding	105	3	26	.....	.....	.....
Dairy Cattle	123	4	10	116	4	42
Breeds of Horses and Sheep	103	4	13	.....	.....	.....
Live Stock, Marketing and Commerce	.....	.....	.....	112	4	7
Horse Training	109	2	18	.....	.....	.....
Animal Conformation and Stock Judging	107	4	21	.....	.....	.....
Principles of Breeding	.....	.....	.....	106	4	7
Hygiene and Management	.....	.....	.....	108	4	11
Types and Classes of Cattle and Sheep	101	4	158	102	4	135
Types and Breeds of Live Stock	129	4	65	130	4	58
Feeding and Breeding of Animals	.....	.....	.....	128	3	15

THE WORK OF INSTRUCTORS 1910-1911 — Continued

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
ARCHITECTURE						
History of Architecture	101	3	11	102	3	12
Architectural Design	107	5	11	108	4	11
Sanitary Plumbing	117	1	9	.....	.....	.....
Masonry	119	2	5	.....	.....	.....
Stereotomy	.....	.....	.....	106	3	7
Professional Practice	.....	.....	.....	116	4	6
Thesis	.....	1	5	118	2	5
Order Problems	103	2	12	104	5	11
Shades and Shadows	105	3	10	.....	.....	.....
Decoration and Ornament	109	3	9	.....	.....	.....
Principles of Architectural Composition	113	2	10	.....	.....	.....
Designing	115	6	7	114	3	7
Working Drawings	.....	.....	.....	110	4	11
Thesis	.....	.....	.....	118	5	5
Photography	111	2	36	112	2	45
ART						
Still Life Composition	103	3	20	104	3	16
Study from Head and Costumed Model	111	2	6	112	2	6
Still Life Composition in Color Values	107	3	7	108	3	8
Special	.....	2	3	.....	2	3
The Teaching of Art	117	3	4	118	3	4
Art Appreciation	119	1	14	120	1	12
Design and Composition	101	2	74	102	2	58
Design and Composition	105	2	21	106	2	19
ASTRONOMY						
Astronomy, Geodesy and Least Squares	.....	.....	.....	105	3	37
Astronomy, Geodesy and Least Squares	.....	.....	.....	104	3	19
Advanced Astronomy	.....	.....	.....	108	2	1
General Astronomy	101	3	108	102	3	93
BACTERIOLOGY						
Bacteriology	101	4	53	102	3	20
General Bacteriology	107	4	82	.....	.....	.....
Pathogenic Bacteriology	.....	.....	.....	108	4	22
Immunity and Serum Therapy	117	5	40	118	5	49
BOTANY						
General Botany	101	4	200	102	4	168
Systematic Botany	129	5	5	130	5	5
Minor Investigations	133	3	1	134	3	1
Evolution of Plants	135	1	5	136	1	5
Research in Systematic Botany	201	3	1	202	3	1
Dendrology	.....	.....	.....	110	2	40
Forest Botany	117	4	7	118	4	7
Plant Physiology	125	4	8	126	4	7
Research in Physiology and Ecology	205	10	1	206	10	1
Elementary Botany	.....	.....	.....	112	4	21
Special Mycology	127	3	4	128	3	4
Plant Pathology	.....	.....	.....	116	3	9
CERAMICS						
Ceramic Manufacture	103	5	20	104	5	20
Colors and Glazes	.....	.....	.....	110	2	19
Laboratory Work in Ceramics	111	5	17	112	5	19
Laboratory Work in Ceramics	115	2	4	.....	.....	.....
Thesis	.....	.....	.....	116	4	12
Ceramic Calculations	.....	.....	.....	106	2	23
Ceramic Chemistry	101	5	24	102	3	15
Physical and Chemical Measurements of Clays	.....	.....	.....	108	3	11
Thesis	.....	.....	.....	116	4	1
Ceramic Designing	113	2	14	114	3	14
Drier and Kiln Design	.....	.....	.....	122	2	4

THE WORK OF INSTRUCTORS 1910-1911 — Continued

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
CHEMISTRY						
Organic Chemistry	151	2	54	152	2	50
Organic Chemistry	153	2½	50	154	2½	50
Organic Chemistry	127	5	56	.....	.....	.....
Chemical Seminar	231	1	24	232	2	21
Organic Chemistry	215	2	6	.....	.....	.....
Research Work	235	7½	5	236	7½	5
General Chemistry	109	1	35	110	1	35
Elementary Chemistry	105	1	20	.....	.....	.....
Advanced General Chemistry	113	2	53	114	2	41
Physical Chemistry	157	3	49	158	3	41
Inorganic Chemistry	.....	.....	.....	220	2	8
Inorganic Preparations	187	3	12	188	3	12
Physical Chemistry	201	3	5	202	3	11
Rare Elements	191	2	8	.....	.....	.....
Research (Ph. D.)	235	4	1	236	4	1
Quantitative Analysis	119	4	75	120	4	47
Quantitative Analysis	121	4	23	.....	.....	.....
Sanitary Analysis	.....	.....	.....	176	3	22
Advanced Quantitative Analysis	165	4	6	.....	.....	.....
The Reading of Chemical Literature	.....	.....	.....	136	2	29
Chemical Problems	.....	.....	.....	124	1	57
Thesis	.....	.....	.....	140	4	3
Elementary Chemistry	101	4	134	102	4	25
Quantitative Analysis	.....	.....	.....	104	2	31
Elementary Chemistry	105	4	414	106	4	355
General Chemistry	109	4	319	110	4	262
Industrial Chemistry	179	4	26	180	4	23
Research Work	235	6	1	.....	.....	.....
Applied Electro Chemistry	.....	.....	.....	194	2	15
Industrial Inspection Trip	.....	.....	.....	182	*	13
Written Report	.....	.....	.....	184	.....	2
Thesis (Chemical Engineering)	.....	.....	.....	140	4	7
Elementary Chemistry	101	2	43	.....	.....	.....
General Chemistry	109	2	81	.....	.....	.....
Qualitative Analysis	.....	.....	.....	106	1	27
Physical Chemistry	161	2½	6	162	2½	15
Quantitative Analysis	119	2	40	.....	.....	.....
Qualitative Analysis	117	3	10	.....	.....	.....
Advanced Qualitative Analysis	.....	.....	.....	158	4	19
CIVIL ENGINEERING						
Land Surveying	101	3	40	.....	.....	.....
Railroad Surveying	.....	.....	.....	102	3	33
Masonry Construction	115	3	26	.....	.....	.....
Masonry Structures	.....	.....	.....	116	3	23
Railway Location	.....	.....	.....	112	4	19
Topographic Drawing	103	2	36	.....	.....	.....
Thesis	119	1	22	122	4	22
Water Supply Engineering	117	3	23	.....	.....	.....
Cement and Concrete	.....	.....	.....	118	3	47
Sanitary Engineering	109	2	41	.....	.....	.....
Roads and Streets	106	3	29	.....	.....	.....
Land Surveying	101	4	11	.....	.....	.....
Thesis Special	.....	8	1	.....	16	1
Bridge Designing	113	4	20	.....	16	1
Advanced Bridges	.....	.....	.....	114	4	4
Tall Buildings	125	3	6	.....	.....	.....
Trusses	123	3	18	124	3	21
Stresses in Structures	.....	.....	.....	110	4	32
Topographic Surveying	105	3	38	.....	.....	.....
Stereotomy	107	3	11	.....	.....	.....
Field Practice	101a	1	6	102a	2	12
Timber Construction	.....	.....	.....	108	3	12

*Industrial Inspection Trip — 6 days of 14 hours each.

THE WORK OF INSTRUCTORS 1910-1911 — Continued

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
CIVIL ENGINEERING — Concluded.						
Railroad Surveying	.....	.....	.....	102	4	49
Plane Surveying	.....	.....	.....	128	2	20
Field Practice	103b	1	12	.....	.....	.....
Surveying and Topographic Drawing	121	6	15	.....	.....	.....
Field Practice	101a	2	13	.....	.....	.....
Topographic Drawing	103a	2	16	.....	.....	.....
Field Practice	103b	1	24	.....	.....	.....
Timber and Masonry	.....	.....	.....	126	2	19
Plane Surveying Field Work	.....	.....	.....	128	2	82
Railroad Surveying	.....	.....	.....	102b	1	12
Cement and Concrete	.....	.....	.....	118	3	28
DAIRYING						
Principles of Dairying	101	4	71	.....	.....	.....
Farm Dairying	.....	.....	.....	102	4	25
Advanced Dairying	113	3	3	114	3	3
Advanced Dairying	117	10	1	118	10	1
City Milk Supply	103	2	4	104	2	14
Dairy Mechanics	111	3	3	.....	.....	.....
Cheese Making	.....	.....	.....	108	3	3
Buttermaking	105	5	7	105	5	7
DOMESTIC SCIENCE						
Domestic Science Seminar	105	2	30	106	2½	30
Dietetics	.....	.....	.....	103	4	30
Teachers' Course	.....	.....	.....	108	3	18
Household Management	107	3	14	.....	.....	.....
The House	.....	.....	.....	104	3	38
Domestic Art	.....	.....	.....	.....	.....	.....
Household Art	.....	.....	.....	104	3	28
Textiles	101	2	15	102	2	97
ECONOMICS AND SOCIOLOGY						
Principles of Sociology	101	3	97	102	3	136
Modern Charity	109	3	21	.....	.....	.....
Seminar in Sociology	117	2	2	118	2	2
Criminology	.....	.....	.....	110	3	21
Field Work in Sociology	115	2	1	.....	.....	.....
Graduate Seminar in Economics and Sociology	207	2	2	208	2	4
Principles of Economics	135	3	151	136	3	144
Labor Legislation	165	3	7	.....	.....	.....
Labor Organizations and Remuneration	.....	.....	.....	166	3	7
Railway Economics	167	3	5	.....	.....	.....
Railroad Administration	.....	.....	.....	168	3	7
Senior Economics Seminar	145	2	3	146	2	3
Graduate Seminar	117	2	4	118	2	4
Economic History of England and United States	131	3	33	.....	.....	.....
Economic Geography	.....	.....	.....	134	3	38
The Negro	105	3	6	.....	.....	.....
The Immigrant	.....	.....	.....	104	3	10
Advanced Sociology	201	2	2	202	2	1
Public Finance	141	2	9	.....	.....	.....
Financial History of the United States	.....	.....	.....	142	2	9
Money and Currency	153	3	10	.....	.....	.....
Banking and Money Market	.....	.....	.....	154	3	6
Economic Geography	133	3	36	.....	.....	.....
Economic History of England and United States	.....	.....	.....	132	3	39
Commercial Development	159	3	12	.....	.....	.....
Commercial Policies	.....	.....	.....	160	3	11
Life Insurance	157	2	17	.....	.....	.....
Property Insurance	.....	.....	.....	158	2	18
Accounting	139	2	40	140	2	36
Business Law	143	3	20	.....	.....	.....
Business Statistics	.....	.....	.....	152	3	17
Advanced Accounting	171	3	3	.....	.....	.....

THE WORK OF INSTRUCTORS 1910-1911 — Continued

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
ECONOMICS AND SOCIOLOGY — Concluded.						
Cost Accounting	.....	.....	.....	172	3	2
Principles of Economics	.....	.....	.....	138	5	40
ELECTRICAL ENGINEERING						
Elementary Electrical Engineering	103	3	52	.....	.....	.....
Application of Electricity	.....	.....	.....	106	1½	46
Alternating Current Machinery	109	3	39	.....	.....	.....
Alternating Current Circuits and Machinery	.....	.....	.....	108	1½	46
Telephony	115	2	6	.....	.....	.....
Electrical Transmission and Distribution	.....	.....	.....	124	2	37
Electric Illumination	117	2	6	.....	.....	.....
Thesis	127	1	37	128	5	36
Special Reading and Laboratory	125	2	2	126	2	21
Alternating Current Laboratory	111	3	38	.....	.....	.....
Advanced Alternating Current Laboratory	.....	.....	.....	112	3	34
Electrical Design	121	3	37	122	2	10
Electrical Railways	113	2	27	.....	.....	.....
Direct Current Machinery	.....	.....	.....	104	5	47
Electrical Engineering	101	5	30	103	2	22
Alternating Current Circuits and Machinery (Problem Work)	.....	.....	.....	108	3	45
ENGINEERING DRAWING						
Elementary Mechanical Drawing	101	2	354	.....	.....	.....
Lettering and Projection Drawing	.....	.....	.....	102	3	357
Descriptive Geometry	105	3	86	.....	.....	.....
Advanced Descriptive Geometry	.....	.....	.....	106	3	80
Descriptive Geometry	103	3	332	.....	.....	.....
Mechanical Drawing	127	1½	103	.....	.....	.....
House Planning	.....	.....	.....	128	1½	46
Teaching of Mechanical Drawing	131	3	2	132	3	2
Lettering	129	2	8	.....	.....	.....
Machine Sketching	.....	.....	.....	104	3	127
Mechanical Drawing	125	2	61	126	2	58
Technical Drawing	111	2	65	.....	.....	.....
Technical Drawing	121	2	18	122	2	18
Technical Drawing	.....	.....	.....	130	2	8
Special Forestry	137	2	5	.....	.....	.....
Free-hand Drawing and Lettering	113	6	18	114	6	12
Charcoal from Architectural Ornament	115	2	9	.....	.....	.....
Pen Drawing	.....	.....	.....	116	2	16
Water Color	117	3	10	.....	.....	.....
Charcoal Drawing from Antique	118	3	5	118	3	12
Technical Delineation	135	2	2	136	2	5
ENGLISH						
Paragraph Writing Description and Narrative	101	2	164	102	2	112
Eighteenth Century Literature	137	2	41	.....	.....	.....
Nineteenth Century Essayists	138	2	.....	138	2	31
Shakespeare: History and Tragedy	167	3	67	.....	.....	.....
Shakespeare: Comedy and Romance	.....	.....	.....	168	3	72
Modern English Drama	169	2	58	.....	.....	.....
Modern English Drama of the Nineteenth Century	.....	.....	.....	170	2	62
History of Critical Theory	205	2	7	.....	.....	.....
Problems of the Drama	.....	.....	.....	206	2	7
Teaching of English	.....	.....	.....	182	2	21
Survey of American Literature	133	3	52	134	3	151
Tennyson	141	3	34	.....	.....	.....
Browning	.....	.....	.....	142	3	37
The Novel	155	3	63	156	3	60
Graduate Seminar; Meredith, James and Hardy	207	2	8	208	2	7
Paragraph Writing Exposition and Argumentation	104	2	39	104	2	311
History of the English Language	127	2	33	.....	.....	.....
English Words	.....	.....	.....	128	2	35

THE WORK OF INSTRUCTORS 1910-1911 — Continued

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
ENGLISH — Concluded.						
Old English	151	3	8			
Old and Middle English				152	3	7
Chaucer	153	2	13			
English Fiction				154	2	9
Early Drama; Mysteries, Moralities and Interludes	165	2	3			
Drama from 1580-1624				166	2	4
Piers Plowman	203	2	2			
Author of Sir Gawayne and the Grene Knight				204	2	1
Advanced Description and Narration	107	2	51			
Advanced Exposition and Criticism				108	2	64
Survey of English Literature	131	3	57	131	3	40
Versification	157	3	13			
The Short Story				158	3	20
The Beginning of the Short Story	201	2	5			
The Lyric				202	2	4
Advanced Argumentative Writing	111	2	21	112	2	21
The English Bible	129	2	43	130	2	38
The Romantic Movement	139	3	17			
Wordsworth and His Period				140	3	32
Principles of Public Speaking	121	2	49			
Debating	122	1	25	122	2	75
Advanced Debating	123	2	16			
Extempore Speaking				124	2	12
Paragraph Writing	101	16	176	104	16	141
Age of Elizabeth	135	3	8			
Age of Milton				136	3	10
EUROPEAN HISTORY						
Mediaeval History	101	3	188			
Modern History				102	3	164
History of England	103	3	20	104	3	19
Age of Renaissance	109	3	5			
Period of the Reformation				110	3	10
French Revolution and Napoleonic Period	111	3	12			
Europe in the Nineteenth Century				112	3	11
Constitutional History of England	113	3	10	114	3	9
Northeastern Europe	117	2	10			
Europe and Asia				118	2	13
History of Germany	119	2	4	120	2	4
Seminar in Modern European History	203	2	2	204	2	3
Teaching of European History				152	2	5
FORESTRY						
Introduction to Forestry	101	2	42	102	2	43
Silviculture	105	3	7	106	3	7
Timber Mensuration, Valuation and Physics	107	4	5			
Forest History, Relation and Management	109	4	4			
Forest Economics and Policies				110	4	4
Arboriculture				104	3	23
Lumbering and Forest Utilization				108	4	13
GEOLOGY						
General Geology	165	3	243	168	3	83
Historical Geology				104	3	18
Minor Investigations and Current Literature	141a	2	4	142a	2	5
Paleontology	107	5	1	108	3	1
Physiography	101	3	89	102	3	94
Inorganic Geology	103	3	20			
Petography				166	2	24
Economic Geology	167	3	18			
Applied Geology				154	3	96
Advanced Physics	111		2	112		2
General Geology	165	1	241			
General Geology				152	2	89
General Geology				152	1	170
Elementary physiography				162	4	5

THE WORK OF INSTRUCTORS 1910-1911 — Continued

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
GERMANIC LANGUAGE AND LITERATURE						
Elementary German	101	4	210	102	4	229
Intermediate German	103	4	223	.....	.....	.....
Science Reading	.....	.....	.....	106	4	74
Prose Composition and Conversation	111	2	36	112	2	26
Advanced Prose Composition	121	2	8	122	2	7
Volkslied	127	2	15	.....	.....	.....
Historic, German Language	.....	.....	.....	142	2	3
Graduate Seminar	205	2	2	206	2	2
Seminar	137	2	10	138	2	9
Easy Classical Reading and Composition	.....	.....	.....	104	4	127
Early Nineteenth Century Literature	.....	.....	.....	130	3	6
Middle High German	147	2	6	.....	.....	.....
Nibelungenlied and Parzival	.....	.....	.....	148	2	3
Teaching of German	149	2	6	.....	.....	.....
Recent Fiction and Prose Composition	107	4	36	.....	.....	.....
Modern Drama	.....	.....	.....	108	4	37
Phonetics	141	1	10	.....	.....	.....
Historical Fiction and Prose Composition	109	4	23	.....	.....	.....
History of German Literature	.....	.....	.....	126	3	4
GREEK						
Xenophon, Greek Prose and Herodotus	105	4	6	.....	.....	.....
Herodotus, and Homer's Odyssey	.....	.....	.....	106	4	6
Greek Life and Literature, Epic and Lyric Poetry	123	2	6	.....	.....	.....
History of Greek Literature	.....	.....	.....	124	2	8
History of Mediaeval Art, Architecture and Sculpture	117	2	48	.....	.....	.....
Mediaeval Art, Sculpture and Painting	.....	.....	.....	118	2	57
Attic Drama	111	2	2	.....	.....	.....
Demosthenes, Theocritus	.....	.....	.....	110	2	2
Elementary Greek	101	4	3	102	4	3
HISTORY AND PHILOSOPHY OF EDUCATION						
History of Education	101a	3	30	102a	3	31
History of Education	101b	3	20	102b	3	20
Educational Classics	105	2	3	106	2	3
HORTICULTURE						
Pomology	105	4	8	106	4	9
Pomology	113	4	7	114	4	6
Plant Variation	107	3	2	.....	.....	.....
Pomology	.....	.....	.....	118	4	49
Winter Course	.....	4	43	.....	.....	.....
Experimental Horticulture	109	3	5	110	3	4
Principles of Horticulture	111	4	75	112	4	65
Principles of Horticulture	101	4	15	102	4	13
Olericulture or Vegetable Gardening	103	4	10	104	4	12
Olericulture or Vegetable Gardening	115	4	4	116	4	4
Landscape Gardening	.....	.....	.....	108	3	14
INDUSTRIAL ARTS						
Tools and Machines	.....	.....	.....	101	3	3
Tools and Machines	.....	.....	.....	102	3	3
Designing	.....	.....	.....	104	2	3
Strength of Materials	.....	.....	.....	110	6	3
Machine Design	.....	.....	.....	112	2	33
Shop Buildings	.....	.....	.....	114	2	3
SHOPWORK						
Machine Work	119	3	43	120	3	22
Advanced Machine Work	121	3	22	122	3	33
Advanced Machine Work	123	3	2	.....	.....	.....
Construction Work	125	2	2	.....	.....	.....

THE WORK OF INSTRUCTORS 1910-1911 — Continued

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
SHOPWORK — Concluded.						
Thesis					6	6
Forging	103	2	99	104	2	114
Forging	115	2	21	116	2	30
Advanced Forging				118	2	2
Carpentry and Pattern Making	101	10	117	102	8	89
Foundry Work	105	3 1-3	39	106	1 2-3	16
Joinery and Pattern Making				110	4	33
Advanced Pattern Making	111	4	30	112	2	13
Wood Turning				130	3	2
Chipping and Filing	107	2 2-3	27	108	1 1-3	11
LATIN						
Cicero and Horace	101	4	66			
Horace and Livy				102	4	56
Roman Private Life	107	1	9	108	1	9
Latin (Graduate)	121	2	3			
Roman Poets				122	2	3
Latin Comedy, Plautus and Terence				104	3	15
Latin Prose Composition	115	3	18	116	3	17
Historical Latin Grammar	117	2	3			
The Roman Novel, Petronius and Seneca				106	2	12
Roman Satire	105	2	14			
Historical Latin Grammar: Syntax				118	2	3
Roman and Comparative Literature	111	1	9	112	1	10
Pro-Seminar	113	3	15	114	3	16
LAW						
Constitutional Law		3	43			
Moot Court		2	40		2	48
Probate Court					1	53
Municipal Corporations					3	41
Trial Practice					2	41
Legal Ethics					1	52
Bankruptcy						39
Contracts		3	60		3	45
Quasi Contracts		2	37			
Private Corporations		2	42		2	38
Wills					2	55
Insurance					2	17
Bailments		2	57			
Suretyship					2	37
Negotiable Instruments		4	60			
Federal Practice					2	38
Personal Property		2	59		3	45
Domestic Relations					3	45
Sales					2	43
Patents and Copyrights						49
Elementary Law		5	62			
Damages					2	37
Torts		2	63		3	49
Partnership					2	55
Real Property	II	3	60	III	2	47
Criminal Law		3	56			
Agency					2	52
Real Property		2	40		1	58
Evidence		2	63		3	59
Equity Jurisprudence		4	39			
Practice in Circuit and Supreme Courts					1	39
Pleading		3	62		3	57
MANUAL TRAINING						
Metal Work				108	3	10
Hand Work				102	2	4
Clay Modeling				104	3	5
Constructive Design				103	3	3

THE WORK OF INSTRUCTORS 1910-1911 — Continued

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
MATHEMATICS						
College Algebra and Trigonometry	121	3	140	.....	.....	.....
Plane Trigonometry and Analytical Geometry	.....	.....	.....	122	3	120
College Algebra and Trigonometry	131	5	282	.....	.....	.....
Plane Trigonometry and Analytical Geometry	.....	.....	.....	132	5	202
Calculus	141	5	246	142	5	198
Advanced Plane and Solid Analytical Geometry	163	2	2	164	2	2
Differential Geometry	201	1	2	202	1	2
Theory of Equations	.....	.....	.....	162	3	1
Differential Equations	151	1	24	.....	.....	.....
Differential Equations	167	3	6	168	4	6
Differential Equations	175	3	4	176	3	4
Differential Geometry	201	2	1	202	2	1
Projective Geometry	171	3	1	172	3	1
Problems	123	1	12	124	1	11
Modern Higher Algebra	173	3	4	174	3	3
Plane Geometry	113	5	24	.....	.....	.....
Solid Geometry and Plane Trigonometry	.....	.....	.....	114	5	16
College Algebra and Trigonometry	.....	.....	.....	131	5	53
Advanced Calculus	165	3	6	166	3	6
Analytics	.....	5	23	.....	.....	.....
Analytical Geometry	.....	5	9	.....	.....	.....
Projective Geometry	201	3	3	202	3	2
MECHANICAL ENGINEERING						
Steam Power Plants	103	3	119	.....	.....	.....
Steam Engines and Boilers	118	3	60	118	4	61
Gas Engines and Producers	125	2	23	.....	.....	.....
Mechanism and Machine Design	.....	.....	.....	140	2	23
Machine Design	127	5	35	144	5	34
Thermodynamics	129	2	22	.....	.....	.....
Thesis	.....	.....	.....	148	3	20
Heating and Ventilating	121	2	4	.....	.....	.....
Experimental Engineering Laboratory	171	4	29	.....	.....	.....
Steam Turbines	.....	.....	.....	146	2	19
Experimental Engineering Laboratory	173	5	21	190	6	22
Experimental Engineering Laboratory	179	2	21	192	3	15
Hydraulic Machinery	.....	.....	.....	142	2	21
Mechanism	101	3	53	.....	.....	.....
Mechanism and Machine Design	.....	.....	.....	110	3	11
Materials of Construction	123	2	6	.....	.....	.....
Experimental Engineering	.....	.....	.....	160	2	35
Experimental Engineering	.....	.....	.....	190	6	21
Experimental Engineering	175	3	34	.....	.....	.....
Mechanism	.....	.....	.....	114	3	21
Mechanism Drawing	.....	.....	.....	116	1	21
Experimental Engineering	.....	.....	.....	164	2	19
Mechanics	101	15	81	102	15	63
METALLURGY AND MINERALOGY						
Crystallography and Mineralogy	.....	.....	.....	104	2	36
General Mineralogy	109	4	76	.....	.....	.....
Metallurgical Construction	111	2	12	.....	.....	.....
Metallurgy of Non-ferrous Metals	.....	.....	.....	110	4	15
Ore Dressing and Coal Washing	113	2	14	.....	.....	.....
Special Metallurgy	.....	.....	.....	114	2	14
Determinative Mineralogy	.....	.....	.....	108	3	12
Fire Assaying	105	6	15	.....	.....	.....
Technical Gas Analysis	.....	.....	.....	112	4	20
Alloy Analysis	107	4	20	.....	.....	.....
Metallurgical Analysis	.....	.....	.....	106	4	20
MILITARY SCIENCE						
Military Drill	.....	1	1,108	.....	1	940

THE WORK OF INSTRUCTORS 1910-1911 — Continued

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
MINE ENGINEERING						
Mine Engineering	105	5	14	.....	.....	.....
Thesis	.....	.....	.....	116	.....	14
Mathematics	101	5	24	102	5	15
Mine Engineering	103	5	46	104	4	14
Mine Engineering	107	2	3	.....	.....	.....
Metallurgy	111	2	14	.....	.....	.....
PHARMACY						
Theory and Practice of Pharmacy	101	5	38	.....	.....	.....
Operative Pharmacy	.....	.....	.....	102	5	31
Pharmaceutical Chemistry	103	5	26	.....	.....	.....
Extemporaneous Pharmacy and Prescription Practice	.....	.....	.....	104	6	25
Pharmaceutical Assaying	107	5	8	.....	.....	.....
Pharmaceutical Analysis	.....	.....	.....	108	5	8
Materia Medica	105	3	43	106	3	41
Pharmacognosy	109	3	46	110	3	38
Pharmacognosy	111	3	6	112	3	6
Toxicology	.....	.....	.....	114	3	26
Pharmaceutical Laboratory Quiz	.....	.....	.....	102	6	36
Pharmaceutical Laboratory Quiz	103	6	25	.....	.....	.....
Pharmaceutical Problems	113	1	39	116	2	23
Pharmaceutical Latin	117	4	15	118	4	10
PHILOSOPHY						
Elements of Philosophy	171	3	9	.....	.....	.....
Logic	.....	.....	.....	172	3	13
Introduction to Philosophy	173	3	5	174	3	4
Elementary Ethics	177	2	7	178	2	6
History of Philosophy	189	3	11	190	3	10
Aesthetics	183	2	6	184	2	4
History of Christian Philosophy	191	3	5	192	3	5
Advanced Psychology	129	2	1	130	2	1
PHYSICAL EDUCATION						
Physical Education	1	1	1,130	1	1	1,011
Gymnasium	1	1	723	1	1	604
RURAL ECONOMICS						
Farm Management	103	4	24	.....	.....	.....
Agricultural Economics	.....	.....	.....	104	3	15
Meteorology	101	2	47	102	2	26
Rural Economics	101	2	17	102	2	25
Rural Economics	.....	.....	.....	102	4	20
PHYSICS						
General Physics	111	3	119	112	3	132
General Physics	113	5	135	114	5	83
Theoretical Physics	169	2	3	170	2	2
Physical Laboratory	.....	.....	.....	134	2	21
Physical Laboratory	.....	.....	.....	138	5	24
Physical Laboratory	135	5	46	140	4	5
Physical Laboratory	139	5	1	.....	.....	.....
Theory and Practice of Electrical Measurements	127	1	1	128	5	1
General Physics	103	4	10	104	4	10
Condition of Electricity	213	2	5	.....	.....	.....
Radioactivity	.....	.....	.....	214	2	4
Advanced Mechanics and Molecular Physics	141	3	5	142	3	4

THE WORK OF INSTRUCTORS 1910-1911 — Continued

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
PHYSICS — Concluded.						
General Physics	105	4	46	106	4	34
Laboratory	121	5	1	122	3	2
Physical Laboratory	137	3	3			
Advanced Laboratory	123	4	3	124	5	5
Theory of Electricity and Magnetism	207	3	4	208	3	6
Elementary Physics	101	6	25			
Physical Laboratory				134	5	36
POLITICAL SCIENCE						
Constitutional Government	101	3	25	102	3	19
Government of Ohio	109	3	3			
Introduction to Jurisprudence	111	2	13	112	2	13
Comparative Administration				110	3	4
Political Science	101	3	23	102	3	19
Comparative Constitutional Law	105	3	3			
History of Political Theories	115	2	2	116	2	3
PRINCIPLES AND PRACTICE OF EDUCATION						
Principles of Education	101	3	21			
Observation, Criticism and Practice				104	3	20
PSYCHOLOGY						
General Psychology	101	3	72	102	3	57
Educational Psychology	107	2	28	108	2	25
General Psychology	137	3	3	138	3	2
Seminar	145	2	3	146	3	3
Animal Psychology	119	3	4			
Abnormal Psychology				120	3	10
Experimental Psychology				112	3	2
ROMANCE LANGUAGES.						
French.						
Modern French Literature	103	4	171	104	4	147
Recent French Prose	113	2	24			
Practice in Speaking and Writing French				114	2	25
French Seminar A	117	2	10	118	2	8
Seventeenth Century Drama	109	3	21	110	3	22
Advanced Prose Composition	107	2	24			
History of French Literature				108	2	15
Elementary French	101	4	316	102	4	255
French—Moliere	109	3	47			
French—Seventeenth Century Literature				110	3	40
Spanish.						
Modern Spanish Literature	103	4	17	104	4	13
Elementary Spanish	101	4	162	102	4	120
Cervantes: Don Quixote	105	2	2	106	2	2
Italian.						
The Italian Novel	103	2	3	104	2	3
SCHOOL ADMINISTRATION.						
Organization of Public Schools	101	3	4			
Administration of Public Schools				102	3	4
School Hygiene and Sanitation	103	1	4	104	1	4
Comparative School Administration	105	3	2	106	3	3
Secondary Schools	111	3	9	112	3	10

THE WORK OF INSTRUCTORS 1910-1911—Concluded

Course Subjects.	First Semester.			Second Semester.		
	Course number.	Cr. hours.	No. of Students.	Course number.	Cr. hours.	No. of Students.
VETERINARY MEDICINE.						
Principles of Horse-shoeing	109	3	75	.....	.....	.....
Theory and Practice of Veterinary Medicine	.....	.....	.....	126	5	130
Physical Diagnosis	127	3	73	.....	.....	.....
Ophthalmology	.....	.....	.....	130	1	80
Operative Surgery	125	10	75	.....	.....	.....
Veterinary Hygiene and Sanitation	.....	.....	.....	150	3	22
Short Agricultural Course	.....	3	1	.....	.....	.....
Short Dairy Course	.....	1	12	.....	.....	.....
Osteology and Arthrology	101	6	45	.....	.....	.....
Myology and Splanchnology	.....	.....	.....	102	10	34
Angiology, Neurology and Topography	103	8	59	.....	.....	.....
Obstetrics	111	3	81	.....	.....	.....
Surgery	.....	.....	.....	150	5	131
Medical and Surgical Clinic for Large Animals	123	1½	81	124	1½	130
Medical and Surgical Clinic for Small Animals	119	1½	81	118	1½	133
Canine Diseases	115	2	81	116	2	80
Materia Medica	107	5	55	116	2	80
Operative Canine Surgery	121	1	81	.....	.....	.....
Pharmacy	.....	.....	.....	110	2	48
General Therapeutics	.....	.....	.....	128	2	80
General Pathology and Morbid Anatomy	105	5	55	.....	.....	.....
Meat Inspection	.....	.....	.....	122	2	80
Parasitology	.....	.....	.....	114	1	48
Post Mortems	.....	.....	55	.....	.....	128
Veterinary Medicine	149	3	26	.....	.....	.....
ZOOLOGY AND ENTOMOLOGY						
Elementary Zoology	101	3	300	102	3	273
Parasites of Domestic Animals	111	1	10	.....	.....	.....
Invertebrate Morphology	121	3	1	122	3	1
Evolution	131	3	7	132	3	7
Special Entomology	113	3	9	114	3	7
Research	141	5	3	142	5	2
Seminar	143	1	6	144	1	10
Comparative Anatomy of Vertebrates	103	4	9	104	4	9
Vertebrate Embryology	125	4	2	126	4	5
Comparative Neurology	.....	.....	.....	133	4	1
Embryology	.....	.....	.....	128	2	41
Economic Entomology	107	3	63	108	3	56
Systematic and Practical Entomology	109	4	35	110	4	27
Ornithology	139	2	7	140	2	7
Quantitative Studies in Variation	.....	.....	.....	130	5	2

APPENDIX VI

*SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.
Bachelor of Arts	1	1	6	2	2	1	5	4	6	8	6	1	7	2	6	9	12	19	13	17	18	8	14	16	6	16	68	68	93	80	80	107	120	122
Bachelor of philosophy	...	...	...	2	...	2	2	1	1	2	6	7	4	8	8	5	5	19	26	27	27	31	38	37	37	37	...	...	...	...	...	...	...	...
Bachelor of science	5	5	1	2	5	3	2	4	2	4	4	8	2	10	7	11	7	9	4	10	10	2	7	11	5	10	7	3	...	...	1	...	...	...
Bachelor of science (Agr.)	...	...	...	...	...	...	...	1	1	...	...	...	2	3	3	...	...	2	4	4	5	5	7	6	6	9	5	14	23	19	32	20	22	13
Bachelor of science in chemical engineering	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	6	7	10
Bachelor of science in chemistry	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	7	5	3	4	...	2	6	...	...	...	1
Bachelor of science in domestic science	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	6	2	3	5	10	6	1	13	11	15	27
Bachelor of science in education	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	9	15	24
Bachelor of science in Forestry	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Bachelor of science in Horticulture	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Bachelor of science (H. F.)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	3	1	1	1	2	1	1	...	1	2	2	6	4	2	2	5	5	1
Bachelor of science (I. Arts)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	1	1	1	...	...
Bachelor of science (Phar.)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	3	...	2	...	...	3	2	4	1	6
Ceramic engineer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	3	...	4	2	...	2	13	18	18	12
Civil engineer in architecture	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	1	...	2	1	5	4	4
Civil engineer	...	...	...	...	...	1	1	1	3	3	4	1	2	2	7	9	7	9	11	4	8	7	3	10	11	14	9	17	15	24	26	22	33	24
Mechanical engineer	...	...	1	...	2	2	1	3	1	2	4	2	2	...	...	2	1	2	4	9	5	6	9	6	11	17	15	19	15	15	14	16	20	23
Mechanical engineer in electrical engineering	...	...	...	...	...	...	...	...	...	...	...	...	1	2	5	9	8	15	17	13	10	7	11	4	6	8	18	20	18	24	27	25	17	34
Engineer of mines	...	...	1	1	...	2	1	2	4	1	4	2	...	...	1	1	4	1	6	3	2	3	3	2	6	7	5	9	9	8	10	13	15	13
Graduate in pharmacy	...	...	...	...	...	...	...	...	...	3	...	2	3	6	5	5	3	11	12	11	7	...	...	...	...	...	...	...	...	...	...	...	...	...
Master of pharmacy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Doctor of Civil Engineering	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Doctor of veterinary medicine	...	...	...	...	...	...	...	...	...	1	...	1	4	...	4	5	...	4	2	3	...	...	4	4	2	8	26	9	13	18	27	28	30	61
Master of arts	...	...	...	...	...	...	...	...	...	...	...	1	1	1	2	...	...	2	...	4	4	3	8	6	9	14	7	13	9	15	16	19	23	21
Master of arts in education	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	4	3
Master of science	...	...	...	1	...	...	...	...	...	...	...	1	1	2	2	...	2	...	3	3	2	3	3	2	1	...	...	...	...	...	...	...	...	1
Master of science (Agriculture)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	1	...	...	...	...	...	...	...	...	2	1	3	3	1
Master of science (Dom. Sc.)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Master of science (H. F.)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	1	...
Doctor of philosophy	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	1	...	1	...	2	...	1
Doctor of science	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...

*SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY — Concluded

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.
Juris Doctor	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Bachelor of laws	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	18	15	16	6	23	22	21	25	17	26	20	11	15	17	26	15	16	22	10
Master of laws	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	4	2	....	6	....	....	....	....	....	....	2	3	1	....	....	....	....	....	....	...
Totals	6	7	9	8	9	11	12	16	18	24	28	26	30	36	61	79	70	112	118	135	126	99	137	135	141	170	194	209	225	249	287	333	370	422
Degrees conferred during the year as of the class of	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	....	....	....	....	....	....	....	....	....	....	6	0	5	6	5	15	....	...
Totals	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	200	209	230	255	292	348	....	...

*Statistics given prior to 1904 — cover only the degrees granted at the Commencement.

APPENDIX VII

SHOWING THE NUMBER OF STUDENTS IN THE GENERAL, TECHNICAL AND PROFESSIONAL COURSES

	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.	1897-98.	1898-99.	1899-1900.	1900-01.	1901-02.	1902-03.	1903-04.	1904-05.	1905-06.	1906-07.	1907-08.	1908-09.
General Courses (College of Arts)	137	151	194	245	256	322	327	358	371	419	439	403	490	496	490	551	572	630	714
Technical Courses (other Colleges, except Law)	166	259	381	368	424	453	453	511	541	603	771	888	1,039	1,135	1,129	1,262	1,280	1,436	1,626
Professional Courses (College of Law)	....	55	67	72	65	100	132	148	191	201	220	188	166	171	179	162	153	138	132
*Graduate students and summer school	2	....	....	1	....	94	97	133	75	45	51	49	62	108	54	240	339	379	458
†Summer school (shopwork)	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	74	75	81	80	90
Lake Laboratory (Summer)	....	....	....	....	....	....	.....	.....	.....	.....	.....	19	.....	23	32	26	19	26	32
Totals	305	465	642	686	745	969	1,019	1,150	1,178	1,268	1,481	1,547	1,757	1,933	1,958	2,316	2,444	2,689	3,052
Names counted twice	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	159	167	216	258
Net Total	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,157	2,277	2,473	2,794

* Until 1896, graduate students have been included in the first three classes.
† Until 1904, summer term students in shopwork have been included with graduate students.

APPENDIX VII—(Continued).

SHOWING THE NUMBER OF STUDENTS IN THE GENERAL, TECHNICAL AND PROFESSIONAL COURSES

	1909-1910	1910-1911
General Courses (Colleges of Arts and Education)	845	865
Technical Courses (Other Colleges Except Law)	1,643	1,780
Professional Courses (College of Law)	181	170
Graduate Courses	96	70
Summer Session	606	617
Lake Laboratory (Summer)	36	22
Winter Courses	159	183
Total	3,566	3,707
Names counted twice	291	268
Net total	3,275	3,439

APPENDIX VIII

SHOWING DEGREES AND CERTIFICATES GRANTED IN JUNE, 1911

COLLEGE OF AGRICULTURE

Dean: HOMER CHARLES PRICE

MASTER OF SCIENCE IN AGRICULTURE

JUNTOKU YAGI, B. Sc. (Agriculture) ..... Takatsuki, Japan

MASTER OF SCIENCE IN DOMESTIC SCIENCE

FRANCES ROWLAND FREEMAN, B. Sc. (Domestic Science) ..... Tippecanoe City

BACHELOR OF SCIENCE IN AGRICULTURE

MYRON ANSEL BACHTELL ..... Medina
PAUL WILLIAMSON BARNES ..... Sandusky
WILLIAM FRENCH BRUCE ..... Delta
HOWARD MOSES CALL ..... Kent
PERRY VAN EWING ..... Carlisle
WALLACE EDWIN HANGER ..... Somerville
SAM HIGGINBOTTOM, B. A. (Princeton University) ..... Cleveland
HARRY LINEBAUGH ..... Grove City
HARRY ADDISON MARSH ..... Amlin
ARTHUR RAY PAGE ..... Dennison
WALTER EUGENE RUTH ..... Sandusky
ALBERT STEVENSON WILCOX ..... Cleveland
LAWRENCE GOOD WRIGHT ..... New Vienna

BACHELOR OF SCIENCE IN FORESTRY

CLARE S. MARTIN ..... New Castle, Indiana
GUY H. MUNDHENK ..... Brookville
OTTO WILHELM PFLUEGER ..... Carey

BACHELOR OF SCIENCE IN HORTICULTURE

WILLIAM BEMBOWER ..... Collins
HARRY C. HYATT ..... Cleveland

DEGREE CONFERRED DURING THE CURRENT ACADEMIC YEAR

As of the Class of 1910

BACHELOR OF SCIENCE IN HORTICULTURE AND FORESTRY

FRANK NELSON FAGAN ..... Tidrow

BACHELOR OF SCIENCE IN DOMESTIC SCIENCE

GERTRUDE ADELL ..... Columbus
LULU FLORENCE BILLMAN ..... Dayton

ROSALIA ELLA BLAKE.....Boulder, Colorado
HAZEL ELIZABETH BREESE, B. A.....Columbus
CELIA THAXTER CAMPBELL.....Harrison
ALICE BERRY CARROLL.....Columbus
ALICE CRANE.....Columbus
GRACE AGNES FERREE.....Sidney
ALMA LUCILE GARVIN.....Cambridge City, Indiana
FLORENCE EVA HUSTON.....Mt. Healthy
ORIE MARIE JOHNSTON.....Grove City
ETTA MAY KATZ.....Marion
TREVA ERDINE KAUFFMAN.....Osborne
AGNES KENNEY.....Marengo
ALTA MCKINNEY.....Elizabethtown
AUGUSTA INDIA MENEFEE.....Columbus
MARIE LOUISE MILLER.....Columbus
BERTHA LOUISE PETRY.....Seventeen
RUBY LOUISE PITKIN.....Grafton
MARY ELVA RICHARDS.....Columbus
CLARA SMITH.....West Unity
ELMA FRANCES SMITH.....Bethel
MABELLE FAY STOLTZ.....Gettysburg
NELLE THOMPSON.....Coshocton
NELLIE WOODS, B. L. (Ohio Wesleyan University).....Marysville
HELEN ROSE ZELLER.....Findlay

DEGREE CONFERRED DURING THE CURRENT ACADEMIC YEAR

As of the Class of 1910

BACHELOR OF SCIENCE IN DOMESTIC SCIENCE

LILLIAN MAKEPEACE.....Columbus

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Dean: JOSEPH VILLIERS DENNEY

DOCTOR OF PHILOSOPHY

LOU HELEN MORGAN, Ph. B., M. A. (Marietta College).....Marietta

MASTER OF ARTS

FLETCHER AYRES, B. A. (DePauw University).....Greencastle, Ind.
ALBERT LOGAN BURNS, B. A. (Wabash College).....Lebanon, Ind.
CLINTON EVERETT CALDWELL, B. S. (National Normal University), B. A. (Marietta College).....Bellaire
ALBERT WATSON DAVISON, B. A. (Denison University).....Alexandria
JEANNETTE EATON, B. A. (Vassar College).....Columbus
SARAH LETTY GREEN, B. S. (Cornell University).....Granville
RALPH EDWIN HALL, B. S., M. Sc. (Ohio Wesleyan University).....Columbus
DEAN MONROE HICKSON, B. A.....Ashley
FRANCIS HAROLD LANDRUM, B. Sc. in Pharmacy.....Columbus
WILLIAM BLAINE LEIGHNINGER, B. A.....West Lafayette
HOLLY RAY NISWONGER, B. S. (Antioch College).....Dayton
CHARLES FLETCHER TAYLOR, B. A.....Columbus
GUY EDWARD VAN SICKLE, B. A.....Columbus
JAMES HENRY WEAVER, B. A. (Otterbein University).....Plain City
MARGARET MARY WING, B. A. (Vassar College).....Columbus

DEGREES CONFERRED DURING THE CURRENT ACADEMIC YEAR

As of the Class of 1910

MASTER OF ARTS

David Burns Clark, B. Sc. ..... Circleville
Charles H. Lake, B. A. ..... Granville
Cora Morton, B. A. ..... Norwood
James Edmund Shrader, B. A. ..... Columbus
Louis Augustus Weinland, B. Sc. (Otterbein) ..... Westerville
Margaret Isabel Wilson, B. A. (Indiana University) ..... Huntington, W. Va.

BACHELOR OF ARTS

John Charles Adams ..... Coraopolis, Pennsylvania
Helen Hanna Aduddell ..... Sarahsville
Bertha Artz ..... Worthington
Caroline Elizabeth Atcheson ..... Linden Heights
Jessie Errett Barr ..... Brice
Harrison Edward Barringer ..... Washington, D. C.
Harvey Raymond Basinger ..... Pandora
Richard Bennett Bean ..... Columbus
Austin Benjamin Beaver ..... Columbus
Stephen W Boesel ..... New Bremen
Warren Milton Briggs ..... Portsmouth
Jessie May Brown ..... Columbus
Thomas Edwin Buchanan ..... Ripley
Mabel Florence Burket ..... Columbus
Frank K. Carothers ..... Sidney
Julia Anna Christmann ..... Columbus
Dorne Marie Chrysty ..... Pataskala
Howard Dimock Clayton ..... Jennings, La.
Robert Willoughby Collins ..... Columbus
Evan J. Crane ..... Columbus
Morris Patty Cromer ..... Dayton
Paul Arthur Davis ..... Jackson
Margaret L. De Vereaux ..... Mechanicsburg
Pramatha Nath Dey ..... Bhatera, India
Leah Leutelle Dumm ..... Columbus
Florence McClure Dunlap ..... Columbus
George Cruikshank Fairbanks ..... Springfield
Howard Fellows ..... Columbus
Helen Margaret Fogle ..... Columbus
Bina Henrietta Freeman ..... Chillicothe
Erwin John Garmhausen ..... New Bremen
Anna Lorena Garrison ..... Lancaster
Weslsy Emmet Gatewood ..... Clintonville
Mabel Elizabeth Gilpin ..... Columbus
Marie Louise Grimes ..... Dayton
John Crawford Grimm ..... Columbus
Simon John Grosse ..... Madisonville
Sadie Pearl Groves ..... Shepard
Helen Haldy ..... Camp Chase
Mary Louise Harlan ..... Columbus
Eula Lee Richter Harris ..... Columbus

ARLINE CALISTA HATCH.....Columbus
EDITH HEADLEY.....West Jefferson
HAZEL HEDGES.....Columbus
MARY HARRIS HELMS.....Steubenville
ANITA JOHANNA HORST.....Columbus
FLORENCE EDITH HUDGEL.....Columbus
MARIE HUMPHREYS.....Columbus
THOMAS JOSHUA HUNSICKER.....Lebanon, Pa.
BERTHA MAY HUNT.....Mechanicsburg
STELLA BARKMAN HUNTINGTON.....Columbus
PHILLIP JACOBS.....Portsmouth
LEONARD JOHNSON.....Columbus
GLADYS JEANNETTE JONES.....Columbus
THOMAS HOYT JONES.....Jackson
HAZEL ALICE KARSHNER.....Columbus
ARTHUR KOHN.....Cleveland
HARRY KOMMINSK.....New Bremen
GENEVIEVE AGNES LAWRENCE.....Rock Island, Ill.
JOSEPHINE MAY LEIB.....Columbus
FLORENCE LOEWEL.....Columbus
HELEN FLOWERS LOTT.....Columbus
WILLIAM SHARP MCCANN.....Cadiz
MARIE FANSHER MCLELLAN.....Columbus
JOHN PEARCE MCMULLEN.....Hillsboro
WILLIAM GIFFORD MAIZE.....Columbus
LEWIS DWIGHT MATHIAS.....Logan
EARL DANIEL MAYER.....Columbus
CLELL LEE METCALF.....Lakeville
AGNES MAY MEYER.....Westerville
WILBUR BEERY MIKESELL.....Covington
CLYDE RAYMOND MILLER.....Columbus
INEZ EDNA MILLS.....Columbus
CHARLOTTE MORNINGSTAR.....Columbus
MARIE LOUISE MULLIGAN.....Columbus
RUSSELL HENRY OPPENHEIMER.....Fremont
LAURA CORINNE ORR.....Wellsville
FLORENCE OSBORN.....Columbus
GEORGE EDWARD PARKINSON.....Columbus
CLAUDE WESTCOAT PETTIT.....Logan
SADA RAUDABAUGH.....Celina
MAY ARNETT REICHEL.....Columbus
BENJAMIN HARRISON RIKER.....Saint Paris
LUCILLE ROGERS.....Hilliard
JOHN FLOYD SCHAEFFER.....Mansfield
NETTIE SCHANFARBER.....Columbus
PEARLE EVA SELLERS.....Kenton
STANLEY NEEDELS SELLS.....Columbus
JOHN CUNNINGHAM SHARON.....Cadiz
MAPEL DELL SHERMAN.....Columbus
ELIZABETH SHOOP.....Washington C. H.
BENJAMIN EDWARDS SHORE.....Dresden
MARY LILLIAN SILBAUGH.....Lancaster
ELIZABETH SINGLETON.....Columbus
KATHRYN SMITH.....Columbus

ETHEL SNYDER ..... Columbus
REGINALD Y. STEVENSON ..... East Palestine
SAMUEL STEWART ..... Ridgeway
MERLE GREELY SUMMERS ..... West Jefferson
LAWRENCE RITSON TAFT ..... Columbus
OTTILIE THEOBALD ..... Columbus
DORCAS TRUCKMILLER ..... Columbus
JAMES HALFORD WARREN ..... Columbus
HARRIET LUCINDA WATERS ..... Lancaster
STANLEY HENRY WATSON ..... Thurston
FLORENCE EVELYN WEBSTER ..... Columbus
HARRY BOYER WEISER ..... Canal Winchester
CORA MCMASTER WELDAY ..... Lorain
BERTRAM WHITTIER WELLS ..... Toledo
NICHOLAS GILL WHITE ..... Kirkersville
ALPHA JAY WILL ..... Toledo
MARGUERITE WILLIAMS ..... Columbus
JOHN BOYNTON WILSON ..... Steubenville

DEGREES CONFERRED DURING THE CURRENT ACADEMIC YEAR

As of the Class of 1910

BACHELOR OF ARTS

FRED VERNON BOUIC ..... Ostrander
WILLIAM KENT DUPRE ..... Portsmouth
FRANK EVERETT ..... Columbus
JONATHAN FORMAN ..... Austinburg
VERNE EMORY LEROY ..... Athens
EDGAR ALLEN MILLER ..... Pataskala
ERNEST FRANKLIN SHADE ..... Bath
OLUS JESSIE STEWART, B. Ph. (Tri State Normal) ..... Columbus
OLIVER CLYDE WEIST ..... Basil

COLLEGE OF EDUCATION

Dean: WILLIAM W. BOYD

MASTER OF ARTS

FANNIE MARIE ATCHESON, B. A. ..... Linden Heights
Thesis: Physical Education for Girls in the Secondary School.
ALFRED WATKINS CASTLE, B. Sc. (Education) ..... South New Lyme
Thesis: Heating and Ventilating School Buildings.
CHARLES HAYWARD FULLERTON, B. Ph. ..... Columbus
Thesis: The Junior High School.

BACHELOR OF SCIENCE IN EDUCATION

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As of the Class of 1909.

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Forest William Davis.....Bryan
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Otto Rudolf Henry Hartman.....Woodville
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Roy Kegerreis.....Bellevue
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Nelson T. Kinzly.....Nevada
Harry Loren Kneisly.....Troy
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As of the Class of 1910

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DEGREE CONFERRED DURING THE CURRENT ACADEMIC YEAR

As of the Class of 1910

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DEGREE CONFERRED DURING THE CURRENT ACADEMIC YEAR

As of the Class of 1910

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